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Page 1 of 125

Test Report

Verified code: 313352

Report No.: E20230711057201-3

Customer: Lumi United Technology Co., Ltd

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

Sample Name: Camera E1

Sample Model: CH-C01E

Receive Sample Date: Jul.12,2023

Test Date: Jul.14,2023 ~ Jul.31,2023

Reference Document: ETSI EN 300 328 V2.2.2 (2019-07)

Test Result: Pass

Prepared by: Huang Lifang
Huang Lifang

Reviewed by: Jiang Tao
Jiang Tao

Approved by: Xiao Liang
Xiao Liang

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2023-09-04

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2. The sample information is provided by the client and responsible for its authenticity; The content of the report is only valid for the samples sent this time.
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5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20230711057201-3	Original Issue	2023-08-02

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1. TEST RESULT SUMMARY

Test Item	Test mode	Test Requirement	Test Method	Class / Severity	Test Result
1. Transmitter Part					
RF Output Power	Mode 1	EN300 328 V2.2.2 4.3.2.2	EN300 328 V2.2.2/5.4.2.2.1	Meet requirements: EN300 328 V2.2.2/4.3.2.2	PASS
Power Spectral Density	Mode 1	EN300 328 V2.2.2/4.3.2.3	EN300 328 V2.2.2/5.4.3.2.1	Meet requirements: EN300 328 V2.2.2/4.3.2.3	PASS
Duty Cycle, Tx-sequence, Tx-gap	Mode 1	EN300 328 V2.2.2/4.3.2.4	EN300 328 V2.2.2/5.4.2.2.1	Meet requirements: EN300 328 V2.2.2/4.3.2.4	N/A
Medium Utilisation (MU) factor	Mode 1	EN300 328 V2.2.2/ 4.3.2.5	EN300 328 V2.2.2/5.4.2.2	Meet requirements: EN300 328 V2.2.2/4.3.2.5	N/A
Adaptivity	Mode 3	EN300 328 V2.2.2/ 4.3.2.6	EN300 328 V2.2.2/5.4.6.2.1	Meet requirements: EN300 328 V2.2.2/4.3.2.6	PASS
Occupied Channel Bandwidth	Mode 1	EN300 328 V2.2.2/ 4.3.2.7	EN300 328 V2.2.2/5.4.7.2.1	Meet requirements: EN300 328 V2.2.2/4.3.2.7	PASS
Transmitter unwanted emissions in the out-of-band domain	Mode 1	EN300 328 V2.2.2/ 4.3.2.8	EN300 328 V2.2.2/5.4.8.2.1	Meet requirements: EN300 328 V2.2.2/4.3.2.8	PASS
Transmitter unwanted emissions in the spurious domain	Mode 1	EN300 328 V2.2.2/ 4.3.2.9	EN300 328 V2.2.2/5.4.9.2.2	Meet requirements: EN300 328 V2.2.2/4.3.2.9	PASS
2. Receiver Part					
Receiver spurious emissions	Mode 2	EN300 328 V2.2.2/ 4.3.2.10	EN300 328 V2.2.2/5.4.10.2.2	Meet requirements: EN300 328 V2.2.2/ 4.3.2.10	PASS
Receiver Blocking	Mode 3	EN300 328 V2.2.2/ 4.3.2.11	EN300 328 V2.2.2/5.4.11.2.1	Meet requirements: EN300 328 V2.2.2/ 4.3.2.11	PASS

Note:

1. N/A = Not Applicable. It's apply to non-Adaptivity equipment or to adaptive FHSS equipment operating in a non-adaptive mode., the EUT is a adaptive equipment not operating in a non-adaptive mode, so it is not applied.

----- The following blanks -----

2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT INFORMATION

Name: Lumi United Technology Co., Ltd

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

2.2 MANUFACTURER

Name: Lumi United Technology Co., Ltd

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

2.3 BASIC DESCRIPTION OF EUT

Product Name: Camera E1

Product Model: CH-C01E

Adding Model: /

Model difference description: /

Trade Name: Aqara

Power Supply: DC 5V,2A

Frequency Band: 2412MHz - 2472MHz for 802.11b/g/n HT20/ax HE20
2422MHz - 2462MHz for 802.11n HT40/ax HE40

Modulation Type: DSSS for 802.11b mode
OFDM for 802.11g mode
OFDM for 802.11n mode
OFDMA for 802.11ax mode

Antenna Specification: IFA antenna with -0.07dBi gain (Max)

Hardware Version: YuYun-MAIN-01A-2

Software Version: 4.0.1_0026

Sample submitting way: Provided by customer Sampling

Sample No: E20230711057201-0002,E20230711057201-0004,E20230711057201-0006

Note: 1.The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

2.4 TEST MODE

Mode No.	Description of the modes
1	2.4G Wi-Fi TX mode
2	2.4G Wi-Fi RX mode
3	2.4G Wi-Fi Work Normal mode

2.5 FREQUENCY BAND AND THE TEST FREQUENCY

Channel	Frequency (MHz)						
*1	2412	5	2432	9	2452	*13	2472
2	2417	6	2437	10	2457	---	---
3	2422	*7	2442	11	2462	---	---
4	2427	8	2447	12	2467	---	---

* is the test frequency

2.6 DESCRIPTION OF ADAPTIVE EQUIPMENT

The type of the equipment	<input type="checkbox"/> FHSS	<input checked="" type="checkbox"/> Non-FHSS			
Adaptive / non-adaptive equipment	<input type="checkbox"/> Non-adaptive Equipment	<input checked="" type="checkbox"/> adaptive Equipment without the possibility to switch to a non-adaptive mode	<input type="checkbox"/>	adaptive Equipment which can also operate in a non-adaptive mode	
The equipment has an implemented	<input type="checkbox"/> Frame Based equipment	<input checked="" type="checkbox"/> Load Based equipment	<input type="checkbox"/> non-LBT based DAA mechanism	<input type="checkbox"/> other	
Device Class	<input checked="" type="checkbox"/> WIFI	<input type="checkbox"/> Bluetooth Low Energy (5.0)	<input type="checkbox"/> Bluetooth EDR/BR (5.0)		
Wi-Fi Channel Bandwidth	<input checked="" type="checkbox"/> 20MHz	<input checked="" type="checkbox"/> 40MHz	<input type="checkbox"/> 80MHz	<input type="checkbox"/> 160MHz	
Antenna Gain	<input checked="" type="checkbox"/> Antenna1 -0.07dBi	<input type="checkbox"/> Antenna 2	<input type="checkbox"/> Antenna 3	<input type="checkbox"/> Antenna 4	
	<input type="checkbox"/> Antenna 5				
Beamforming Gain	<input type="checkbox"/> Yes, dBi	<input checked="" type="checkbox"/> No			
Extreme operating conditions	<input checked="" type="checkbox"/> Operating temperature range:	<input checked="" type="checkbox"/> Min -10°C	<input checked="" type="checkbox"/> Max +45 °C		
Blocking	<input checked="" type="checkbox"/> PER	<input type="checkbox"/> The manufacturer may declare alternative performance criteria			
Geo-location capability supported by the equipment	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No			

The EUT is Receiver Category 1 equipment.

3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add.: No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China.
P.C.: 518110
Tel : 0755-61180008
Fax: 0755-61180008

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

China	CNAS(L0446)
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Copies of granted accreditation certificates are available for downloading from our web site,
<http://www.grgtest.com>

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3.3 MEASUREMENTS UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in ETSI EN TR 100 028-1 (i.15) and ETSI EN 100 028-2 (i.8):

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	30MHz~1000MHz	4.3dB
		1GHz~18GHz	5.6dB
	Vertical	30MHz~1000MHz	4.3dB
		1GHz~18GHz	5.6dB

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.78 dB
Occupied channel bandwidth	0.4 dB
Unwanted emission, conducted	0.68 dB
Humidity	6 %
Temperature	2°C

This uncertainty represents an expanded uncertainty expressed at approximately the 95%.

This uncertainty represents an expanded uncertainty factor of $k=2$.

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4. EQUIPMENT AND TOOLS USED DURING TEST

4.1 TEST EQUIPMENT AND TOOLS

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Occupied channel bandwidth& Transmitter unwanted emissions in the out-of-band domain				
Simultaneous sampling DAQ	TONSCEND	JS0806-2	186060020	2024-06-23
Spectrum Analyzer	Agilent	N9020A	MY50510140	2023-10-19
BT/Wi-Fi System	tonscend		JS1120-3	
Maximum transmit power & Maximum e.i.r.p. spectral density				
Simultaneous sampling DAQ	TONSCEND	JS0806-2	186060020	2024-06-23
Programmable constant temperature and humidity test chamber	HT	SMC-22PF	H12204211060-1	2024-02-02
Spectrum Analyzer	Agilent	N9020A	MY50510140	2023-10-19
Pulse power sensor	TONSCEND	u2021A	I00641	2024-06-23
BT/Wi-Fi System	tonscend		JS1120-3	
Transmitter unwanted emissions in the spurious domain & Receiver spurious emissions				
Bi-log Antenna	Schwarzbeck	VULB9163	01279	2024-03-05
Horn Antenna	Schwarzbeck	BBHA9120D	02499	2023-09-25
Amplifier	Tonscend	TAP037030	AP20E8060081	2024-04-16
Amplifier	Tonscend	TAP01018048	AP20E8060076	2024-04-16
Amplifier	Tonscend	TAP9E6343	AP20E806065	2024-04-16
Spectrum Analyzer	KEYSIGHT	N9010A	MY55370330	2023-10-25
Spectrum Analyzer	R&S	FSV3044	101184	2023-09-02
Test S/W	tonscend		JS36-RSE/5.0.0.1	
Adaptivity				
Spectrum Analyzer	Agilent	N9020A	MY50510140	2023-10-19
Vector Signal Generator	Agilent	N5182A	MY5014870	2024-06-09
Signal Generator	Anritsu	MG3694A	#050125	2023-08-16
BT/Wi-Fi System	tonscend		JS1120-3	
Receiver Blocking				
Signal Generator	Anritsu	MG3694A	#050125	2023-08-16
Wideband radio Communication Tester	R&S	CMW500	144611-nC	2024-04-16
BT/Wi-Fi System	tonscend		JS1120-3	

Note: The calibration interval of the above test instruments is 12 months.

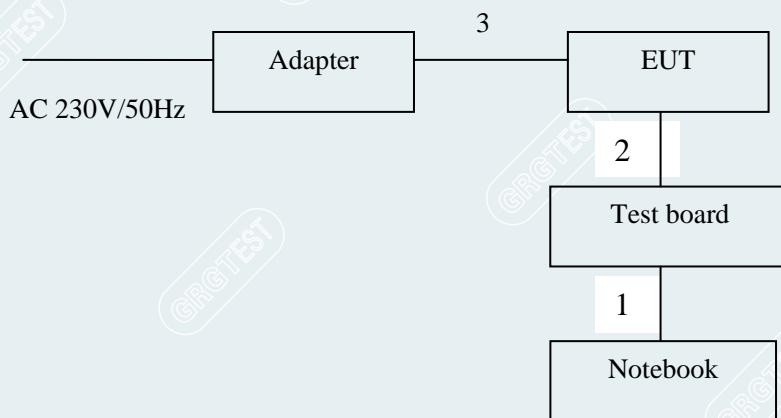
4.2 LOCAL SUPPORTIVE INSTRUMENTS

Name of equipment	Manufacturer	Model	Serial number	Note
Notebook	DELL	Latitude3490	2095LR2	/
Test board	/	/	/	/
Adapter	Aohai	A70-050200U-EU1	/	/

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	USB extension cable	1	No	0	1.5m
2	DC cable	1	No	0	0.2m
3	Type C to USB cable	1	No	0	1.0m

Note: ⁽¹⁾The notebook is just used to produce fixed frequency transmitting.

4.3 CONFIGURATION OF SYSTEM UNDER TEST



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4.4 TEST SOFTWARE

Software version	Test level
QCOM_V1.0	802.11b: 2412MHz: 16 2442MHz: 15 2472MHz: 15 802.11g: 2412MHz: 14 2442MHz: 13 2472MHz: 13 802.11n HT20: 2412MHz: 12 2442MHz: 12 2472MHz: 11 802.11n HT40: 2422MHz: 13 2442MHz: 12 2462MHz: 12 802.11ax HE20: 2412MHz: 11 2442MHz: 10 2472MHz: 10 802.11ax HE40: 2422MHz: 11 2442MHz: 11 2462MHz: 10

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5. RADIO TECHNICAL REQUIREMENT SPECIFICATION

5.1 RF OUTPUT POWER

Test Requirement: EN300 328 V2.2.2/ 4.3.2.2

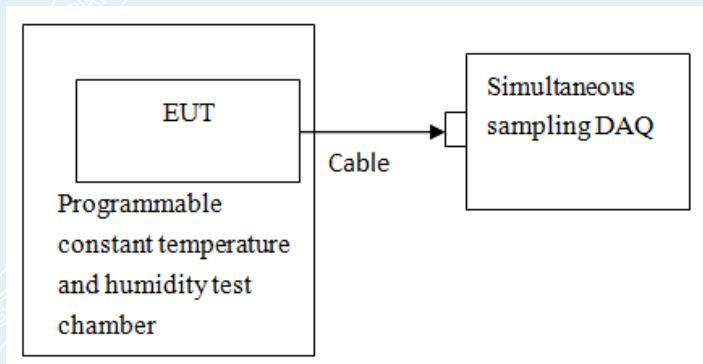
Test Method: EN300 328 V2.2.2/5.4.2.2.1

5.1.1 LIMIT

The RF output power for non-FHSS equipment shall be equal to or less than 20 dBm.

5.1.2 TEST CONFIGURATION

Conducted measurement:



5.1.3 TEST PROCEDURES

Test procedure: Test procedure is according to Clause 5.4.2.2.1 of EN 300 328 V2.2.2

Test channel: 2412MHz, 2442MHz, 2472MHz for 802.11b/g/n HT20/ax HE20
2422MHz, 2442MHz, 2462MHz for 802.11n HT40/ax HE40

Test condition: Normal and extreme test conditions.

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5.1.4 TEST RESULTS

Test environment: Normal condition: 25.8°C/57%RH/101.0kPa

Extreme test conditions: Minimum Temp: -10°C

Maximum Temp: +45°C

Test Engineer: Huang Tianmei

Test Date: 2023-07-14 ~ 2023-07-24

Test Condition	Test Mode	Antenna	Frequency [MHz]	EIRP[dBm]	Limit[dBm]	Verdict
NTNV	802.11b	Ant1	2412	15.62	20	PASS
			2442	15.27	20	PASS
			2472	15.37	20	PASS
	802.11g	Ant1	2412	13.61	20	PASS
			2442	13.27	20	PASS
			2472	13.46	20	PASS
	802.11n HT20	Ant1	2412	12.18	20	PASS
			2442	12.70	20	PASS
			2472	12.10	20	PASS
	802.11n HT40	Ant1	2422	12.77	20	PASS
			2442	12.22	20	PASS
			2462	12.47	20	PASS
	802.11ax HE20	Ant1	2412	10.68	20	PASS
			2442	10.38	20	PASS
			2472	10.71	20	PASS
	802.11ax HE40	Ant1	2422	10.64	20	PASS
			2442	9.81	20	PASS
			2462	10.05	20	PASS
LTNV	802.11b	Ant1	2412	15.57	20	PASS
			2442	15.25	20	PASS
			2472	15.51	20	PASS
	802.11g	Ant1	2412	13.74	20	PASS
			2442	13.27	20	PASS
			2472	13.41	20	PASS
	802.11n HT20	Ant1	2412	12.24	20	PASS
			2442	12.66	20	PASS
			2472	12.13	20	PASS
	802.11n HT40	Ant1	2422	12.79	20	PASS
			2442	12.27	20	PASS
			2462	12.44	20	PASS
	802.11ax HE20	Ant1	2412	10.78	20	PASS
			2442	10.40	20	PASS
			2472	10.61	20	PASS
	802.11ax HE40	Ant1	2422	10.62	20	PASS
			2442	9.92	20	PASS
			2462	10.04	20	PASS

HTNV	802.11b	Ant1	2412	15.47	20	PASS
			2442	15.31	20	PASS
			2472	15.40	20	PASS
	802.11g	Ant1	2412	13.71	20	PASS
			2442	13.33	20	PASS
			2472	13.50	20	PASS
	802.11n HT20	Ant1	2412	12.24	20	PASS
			2442	12.66	20	PASS
			2472	12.07	20	PASS
	802.11n HT40	Ant1	2422	12.76	20	PASS
			2442	12.25	20	PASS
			2462	12.42	20	PASS
	802.11ax HE20	Ant1	2412	10.70	20	PASS
			2442	10.34	20	PASS
			2472	10.61	20	PASS
	802.11ax HE40	Ant1	2422	10.59	20	PASS
			2442	9.93	20	PASS
			2462	10.15	20	PASS

----- The following blanks -----

5.2 POWER SPECTRAL DENSITY

Test Requirement: EN300 328 V2.2.2/4.3.2.3

Test Method: EN300 328 V2.2.2/5.4.3.2.1

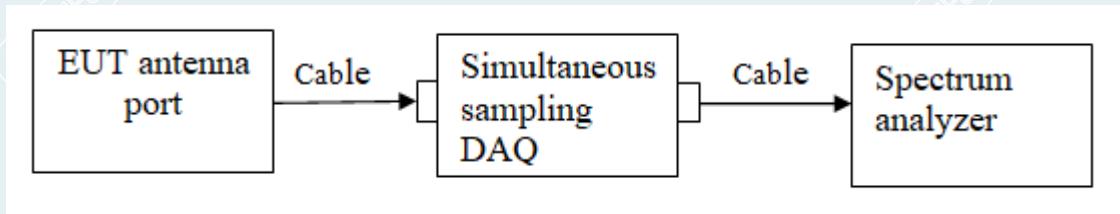
5.2.1 LIMIT

This requirement applies to all types of equipment using wide band modulations other than FHSS.

For equipment using wide band modulations other than FHSS, the maximum Power Spectral Density is limited to 10 dBm per MHz.

5.2.2 TEST CONFIGURATION

Conducted measurement:



5.2.3 TEST PROCEDURES

Test condition: Normal test conditions

Test channel: 2412MHz, 2442MHz, 2472MHz for 802.11b/g/n HT20/ax HE20
2422MHz, 2442MHz, 2462MHz for 802.11n HT40/ax HE40

Test procedure: Test procedure is according to Clause 5.4.3.2.1 of EN 300 328 V2.2.2

Remark: /

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5.2.4 TEST RESULTS

Test environment: Normal condition:
25.8°C/57%RH/101.0kPa

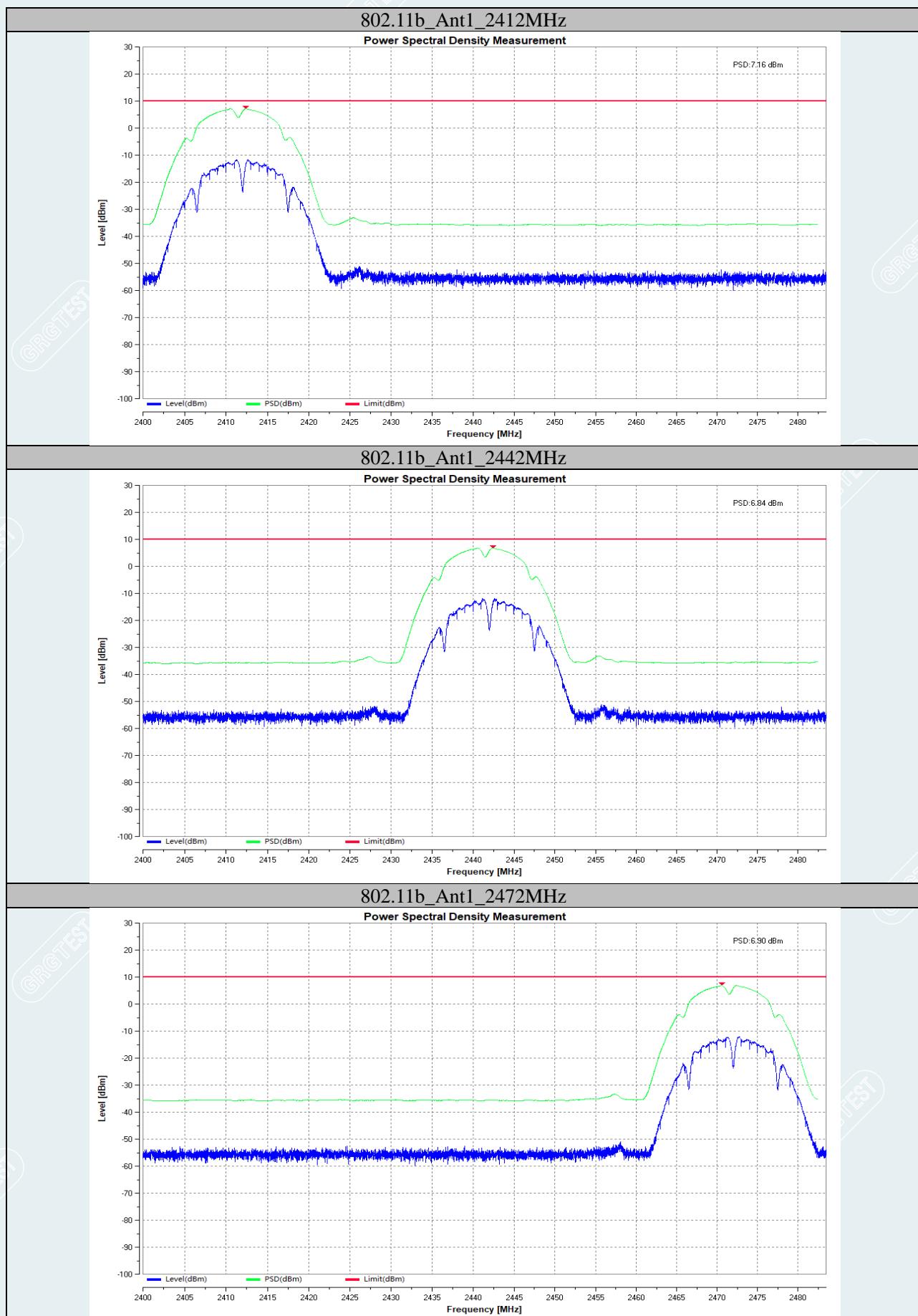
Test Engineer: Huang Tianmei

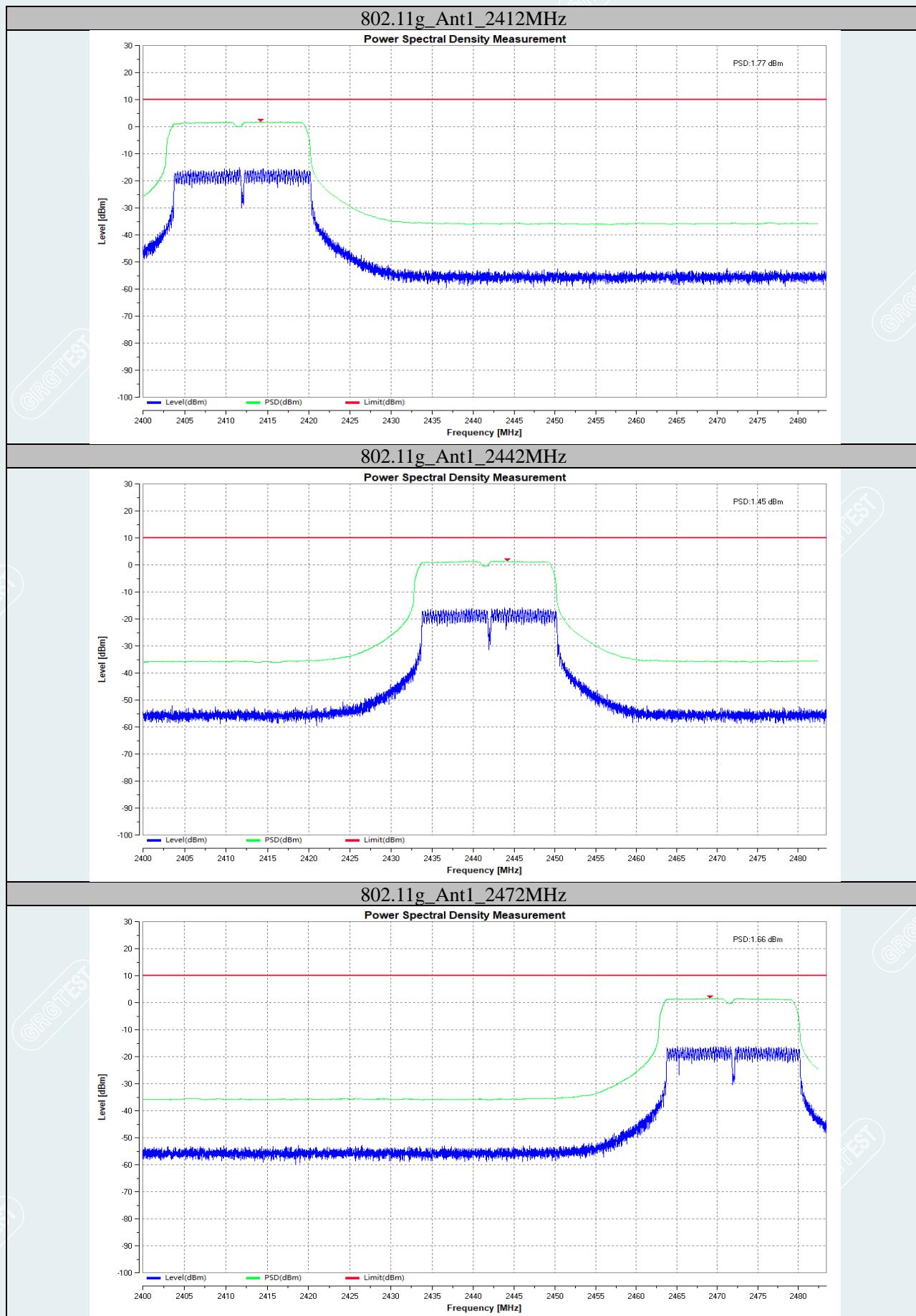
Test Date: 2023-07-14 ~ 2023-07-24

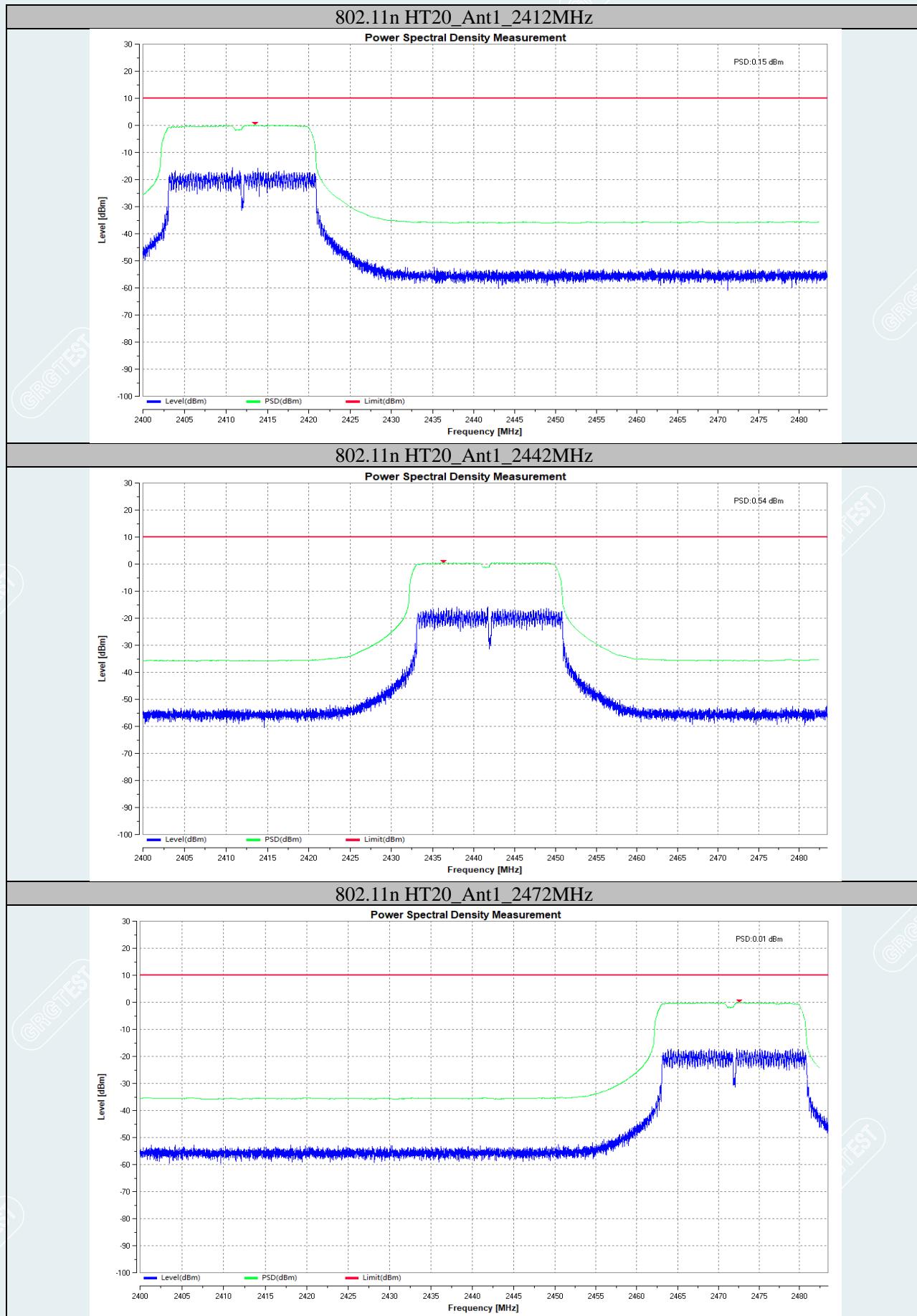
Test Mode	Antenna	Freq[MHz]	EIRP PSD[dBm/MHz]	Limit[dBm/MHz]	Verdict
802.11b	Ant1	2412	7.16	10	PASS
		2442	6.84	10	PASS
		2472	6.90	10	PASS
802.11g	Ant1	2412	1.77	10	PASS
		2442	1.45	10	PASS
		2472	1.66	10	PASS
802.11n HT20	Ant1	2412	0.15	10	PASS
		2442	0.54	10	PASS
		2472	0.01	10	PASS
802.11n HT40	Ant1	2422	-2.00	10	PASS
		2442	-2.72	10	PASS
		2462	-2.42	10	PASS
802.11ax HE20	Ant1	2412	-1.69	10	PASS
		2442	-2.11	10	PASS
		2472	-1.79	10	PASS
802.11ax HE40	Ant1	2422	-4.63	10	PASS
		2442	-5.38	10	PASS
		2462	-5.15	10	PASS

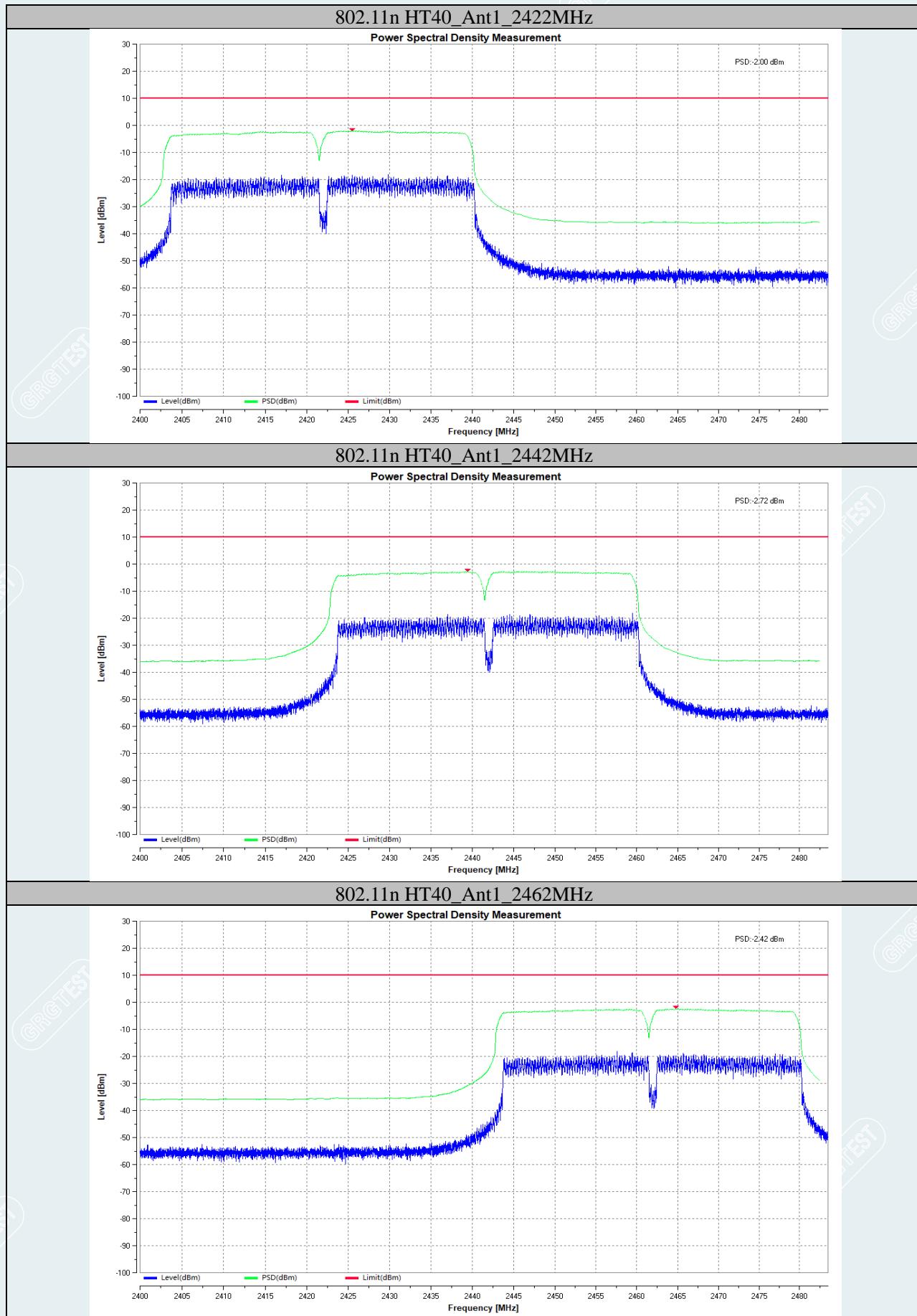
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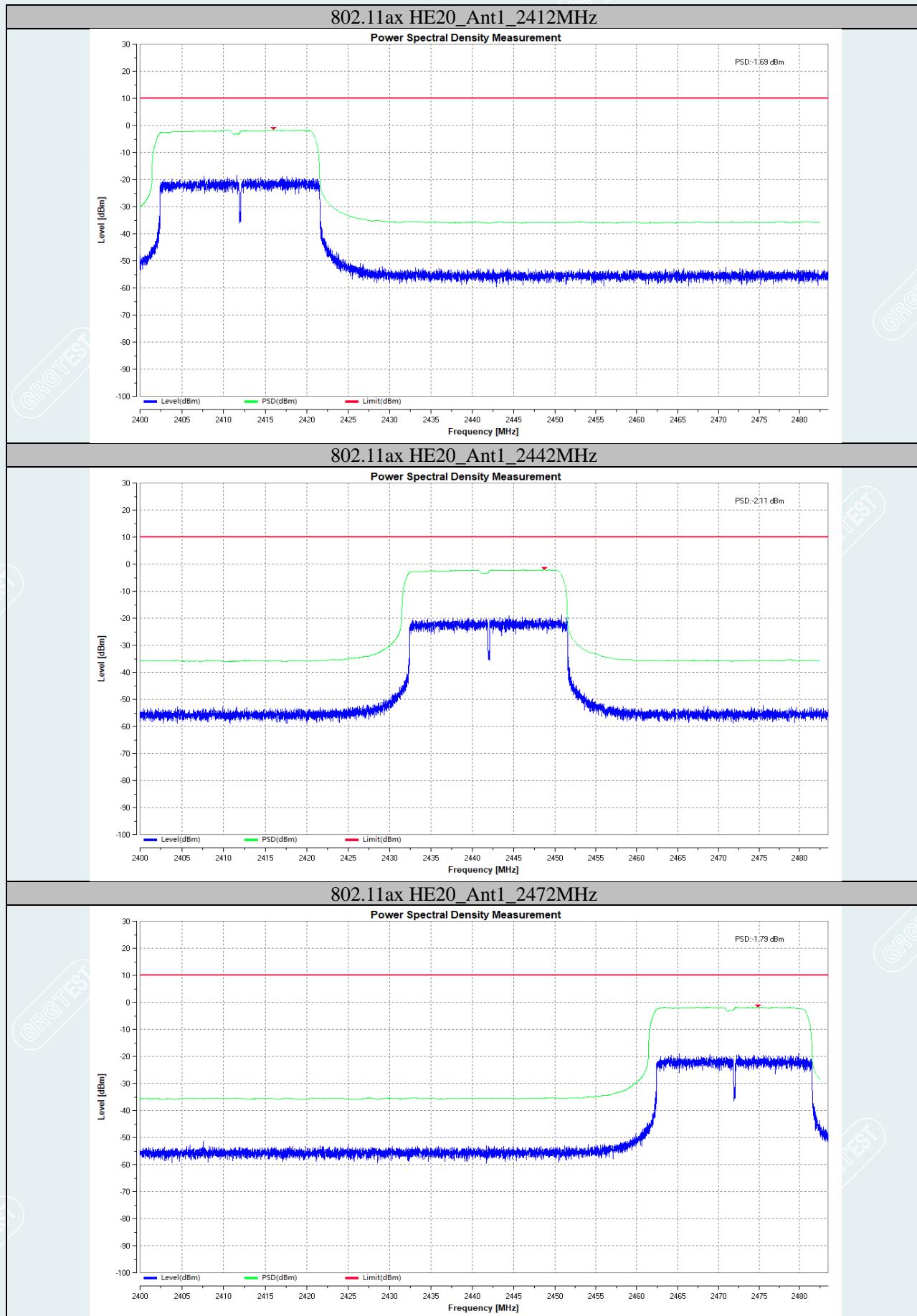
Test Graphs

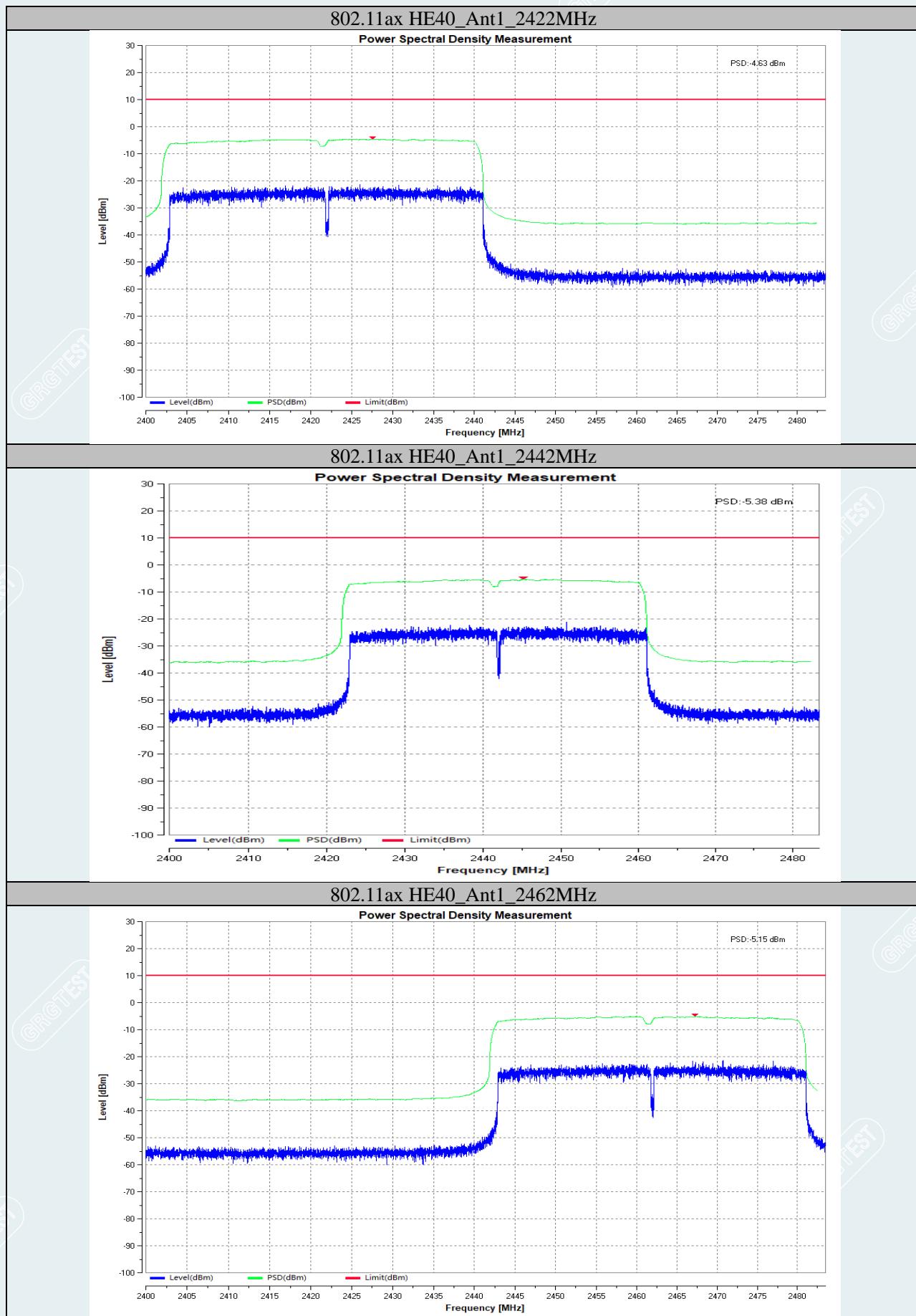












5.3 ADAPTIVITY

Test Requirement: EN300 328 V2.2.2/ 4.3.2.6

Test Method: EN300 328 V2.2.2/5.4.6.2.1

5.3.1 LIMIT

For Adaptive Non-FHSS equipment

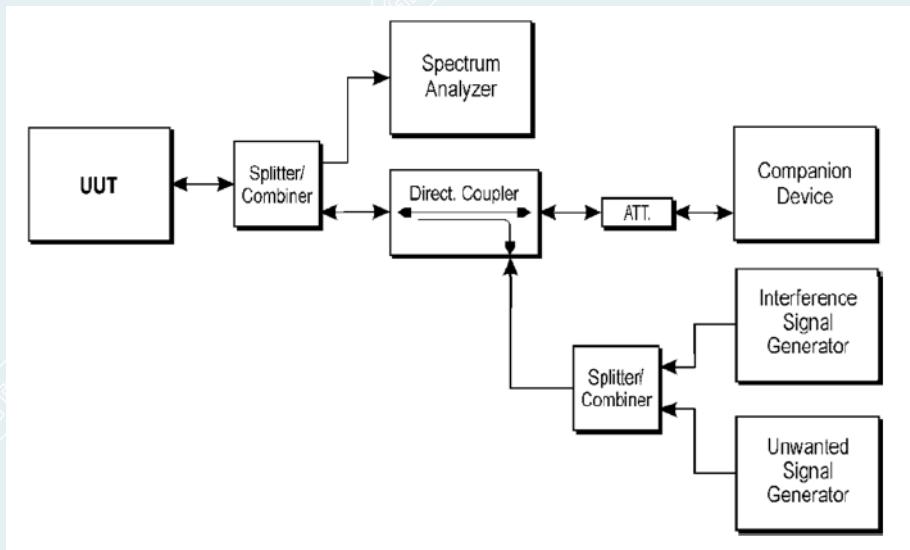
Clear Channel Assessment 18us - 160us

Channel Occupancy time < 13ms

Short Control Signaling Transmissions shall have a maximum TxOn/(TxOn+TxOff) ratio of 10% within any observation period of 50ms or within an observation period equal to the dwell time, whichever is less.

5.3.2 TEST CONFIGURATION

Conducted measurement:



5.3.3 TEST PROCEDURES

Test condition: Normal test conditions

Test channel: 2412MHz, 2472MHz for 802.11b/g/n HT20/ax HE20
2422MHz, 2462MHz for 802.11n HT40/ax HE40

Test procedure: Test procedure is according to Clause 5.4.6.2.1 of EN 300 328 V2.2.2

Remark: /

5.3.4 TEST RESULTS

Test environment: Normal condition:

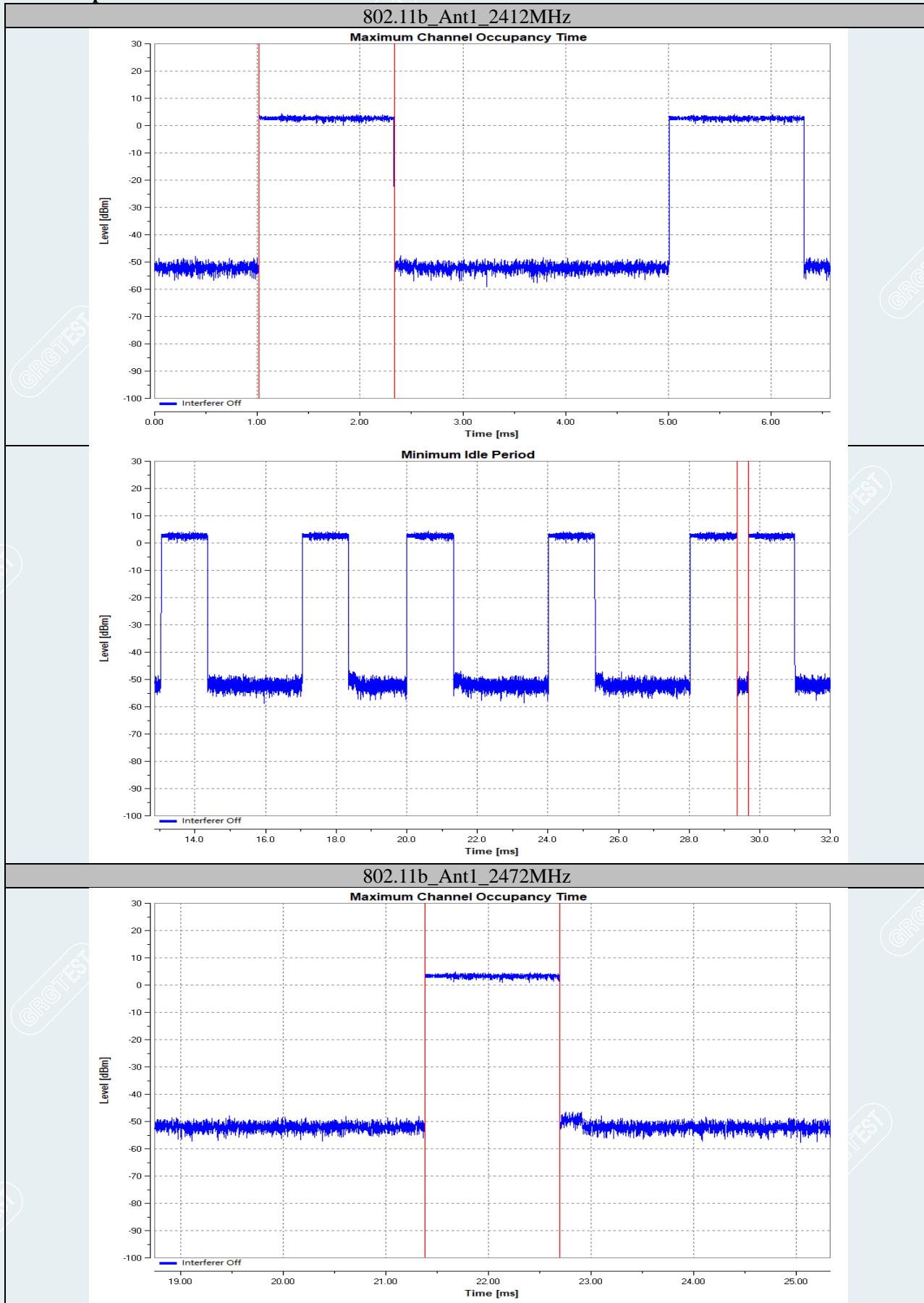
25.8°C/57%RH/101.0kPa

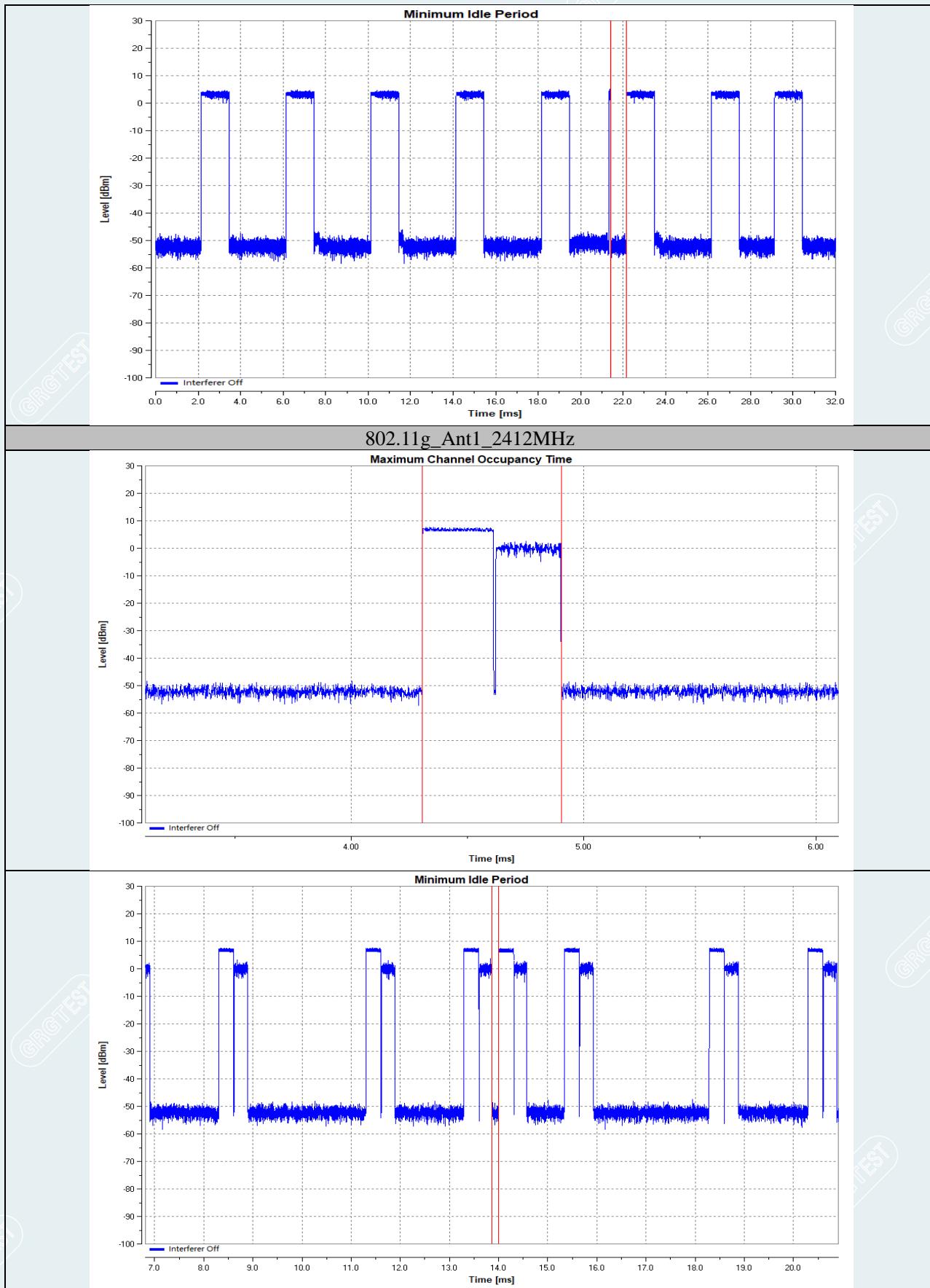
Test Engineer: Qin Tingting

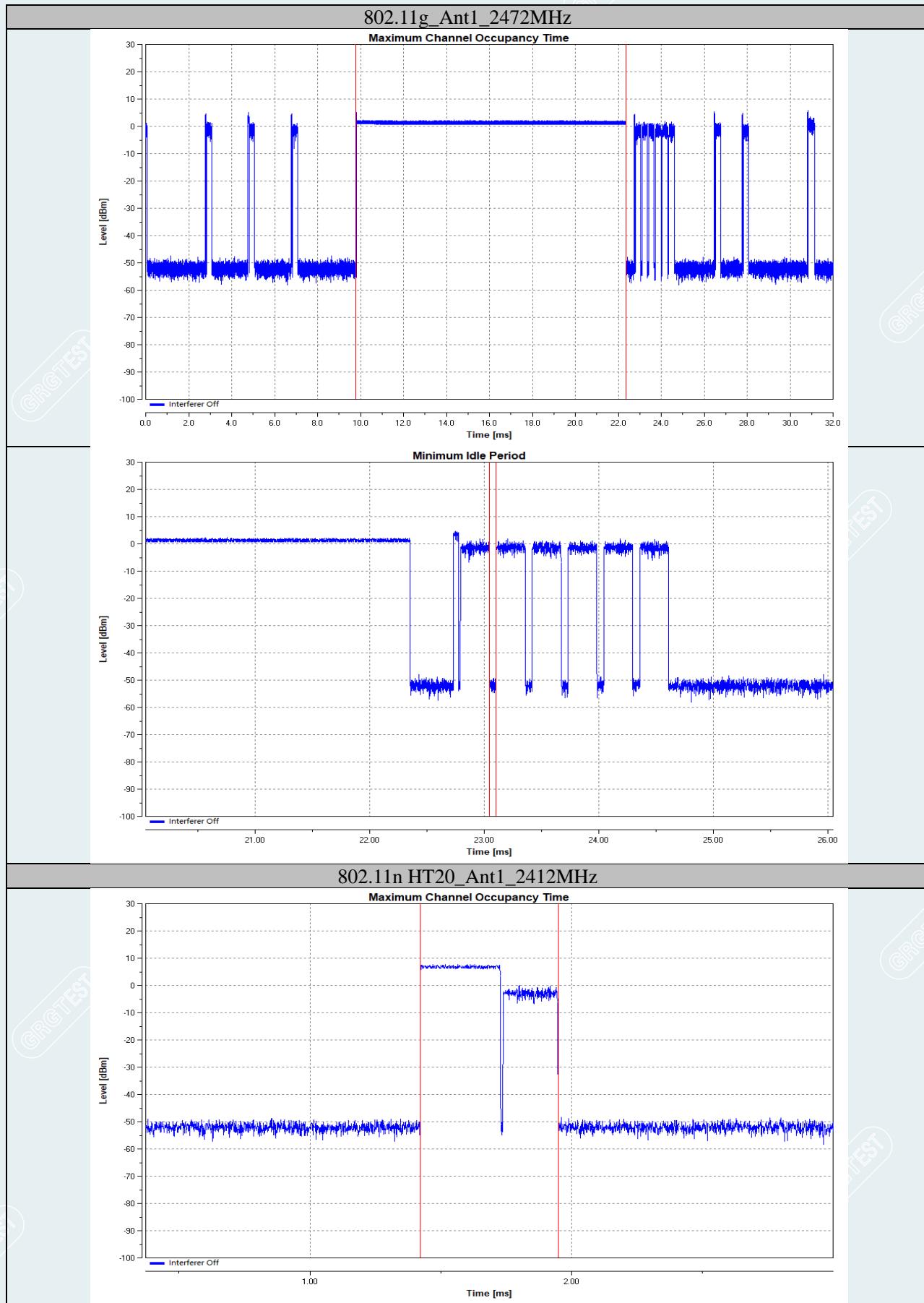
Test Date: 2023-07-14 ~ 2023-07-24

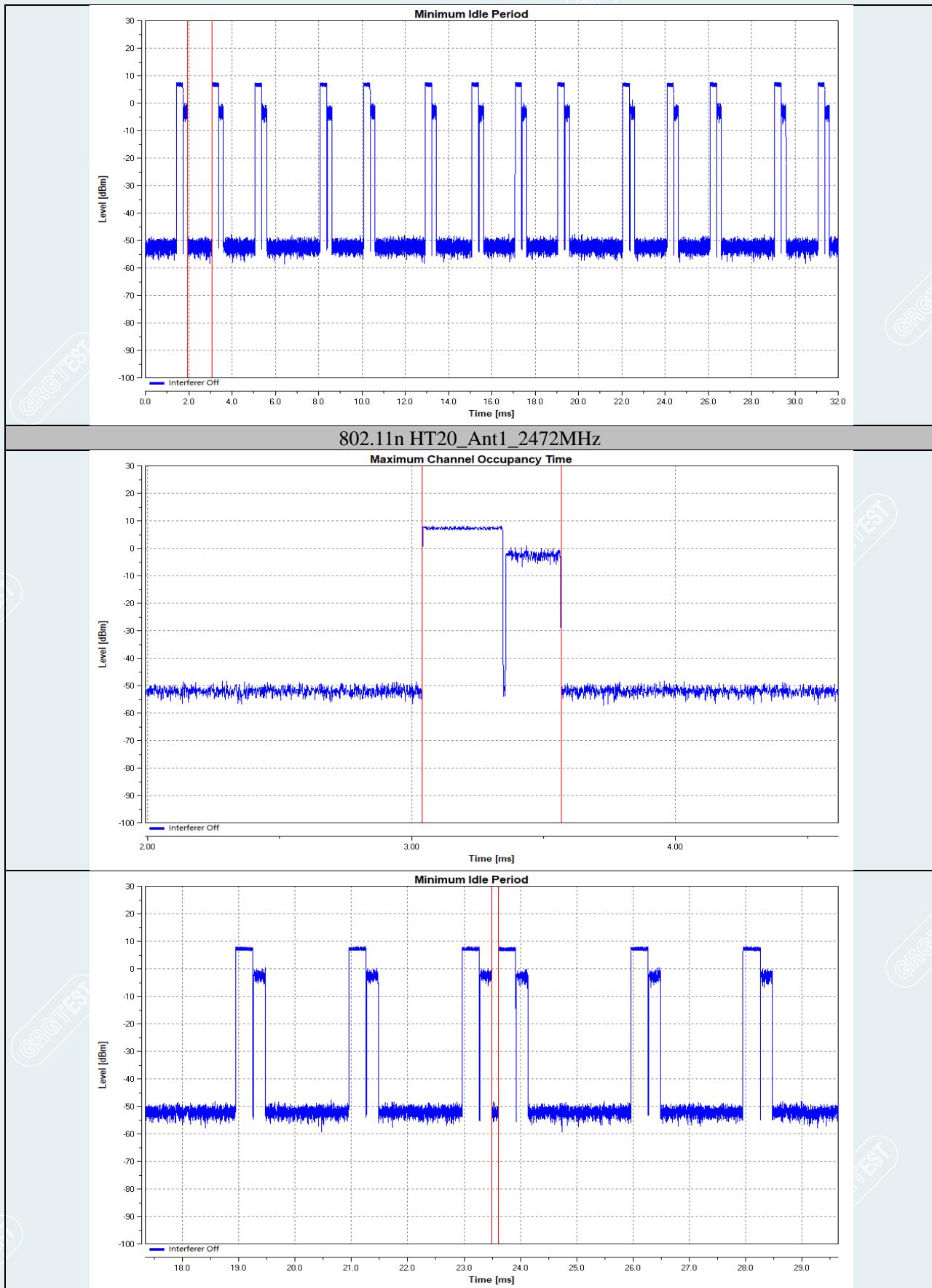
Test Mode	Antenna	Freq [MHz]	Max.COT [ms]	Limit [ms]	Min.Idle Time[ms]	Limit [ms]	Verdict
802.11b	Ant1	2412	1.315	13	0.330	0.018	PASS
		2472	1.316	13	0.770	0.018	PASS
802.11g	Ant1	2412	0.596	13	0.141	0.018	PASS
		2472	12.589	13	0.060	0.018	PASS
802.11n HT20	Ant1	2412	0.525	13	1.132	0.018	PASS
		2472	0.525	13	0.123	0.018	PASS
802.11n HT40	Ant1	2422	0.457	13	0.107	0.018	PASS
		2462	0.535	13	0.114	0.018	PASS
802.11ax HE20	Ant1	2412	1.406	13	0.087	0.018	PASS
		2472	0.549	13	0.131	0.018	PASS
802.11ax HE40	Ant1	2422	1.139	13	0.103	0.018	PASS
		2462	0.473	13	0.114	0.018	PASS

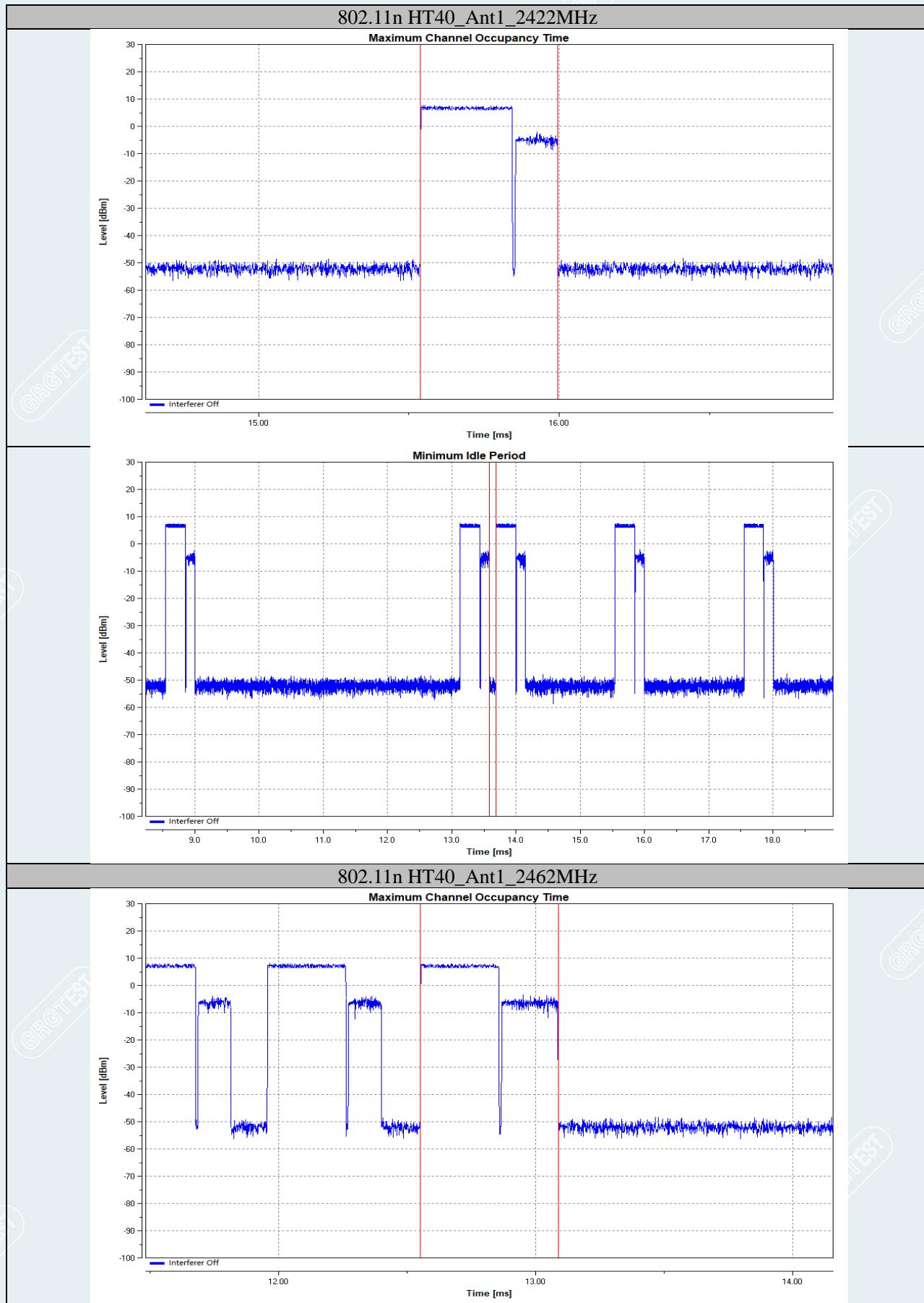
Test Mode	Antenna	Freq [MHz]	Add Signal Type	Add Signal Time [ms]	Add Signal Level [dBm]	Max. Short Time [%]	Limit [%]	Verdict
802.11b	Ant1	2412	AWGN	3000	-65.62	2.80	10	PASS
			CW	65998	-35.07	0.00	10	PASS
		2472	AWGN	3000	-65.37	0.40	10	PASS
			CW	65998	-35.07	0.00	10	PASS
802.11g	Ant1	2412	AWGN	3000	-63.61	1.80	10	PASS
			CW	65998	-35.07	0.00	10	PASS
		2472	AWGN	3000	-63.46	0.20	10	PASS
			CW	65998	-35.07	0.40	10	PASS
802.11n HT20	Ant1	2412	AWGN	3000	-62.18	0.40	10	PASS
			CW	65998	-35.07	0.00	10	PASS
		2472	AWGN	3000	-62.10	1.20	10	PASS
			CW	65998	-35.07	0.00	10	PASS
802.11n HT40	Ant1	2422	AWGN	3000	-62.77	1.00	10	PASS
			CW	65998	-35.07	0.00	10	PASS
		2462	AWGN	3000	-62.47	1.20	10	PASS
			CW	65998	-35.07	0.00	10	PASS
802.11ax HE20	Ant1	2412	AWGN	3000	-60.68	1.80	10	PASS
			CW	65998	-35.07	0.00	10	PASS
		2472	AWGN	3000	-60.71	0.20	10	PASS
			CW	65998	-35.07	0.00	10	PASS
802.11ax HE40	Ant1	2422	AWGN	3000	-60.64	0.20	10	PASS
			CW	65998	-35.07	0.00	10	PASS
		2462	AWGN	3000	-60.05	1.20	10	PASS
			CW	65998	-35.07	0.00	10	PASS

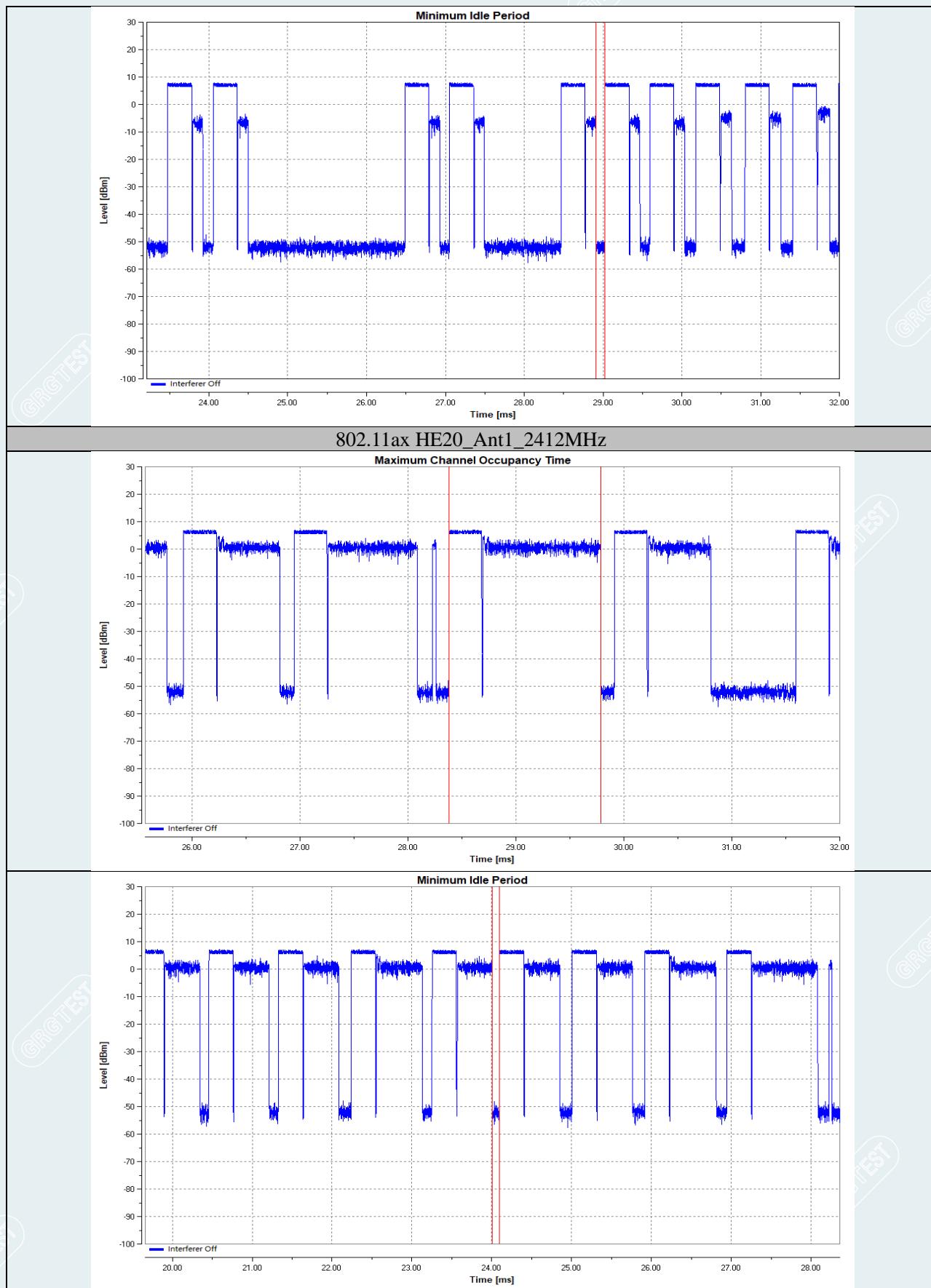
Test Graphs

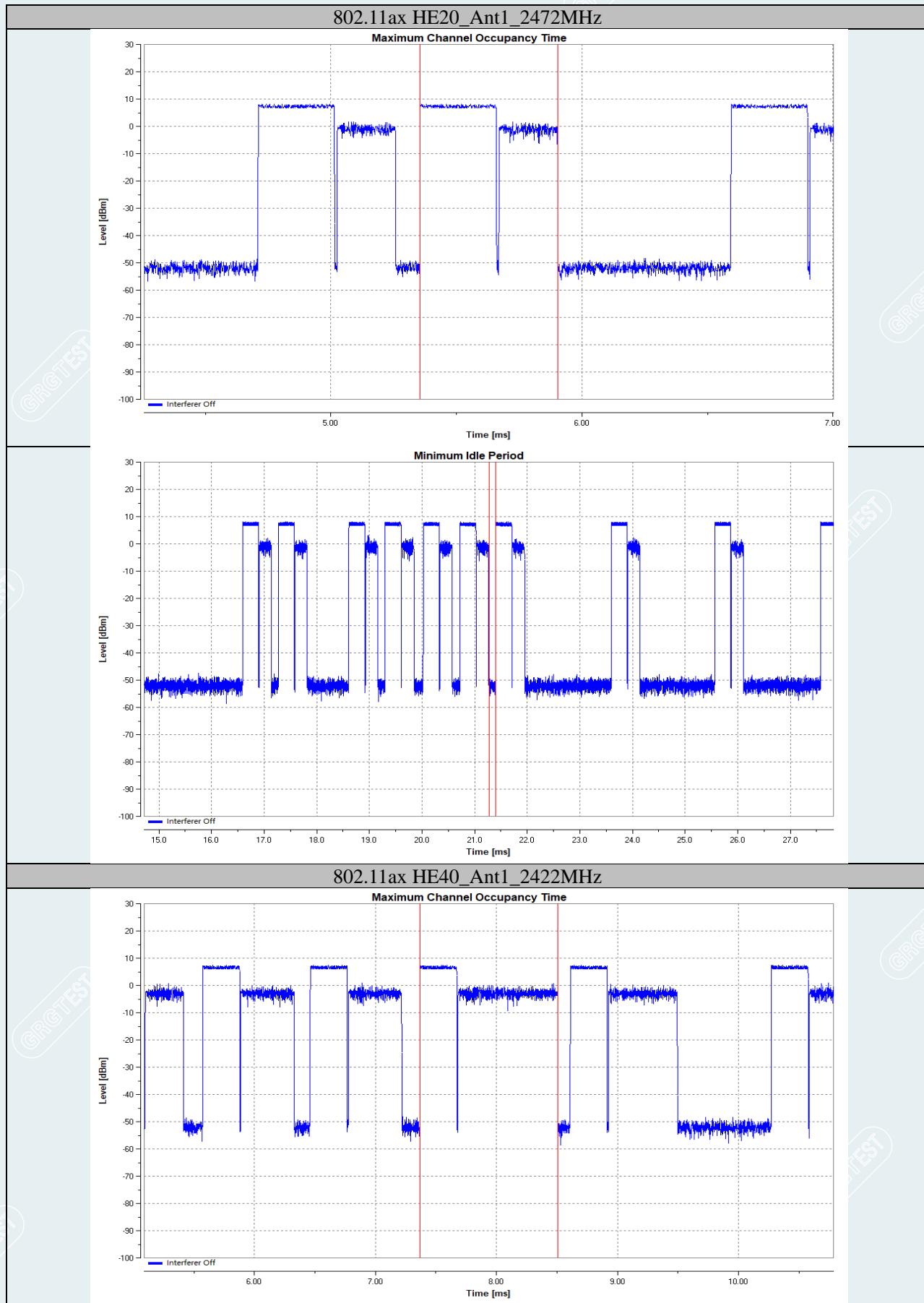


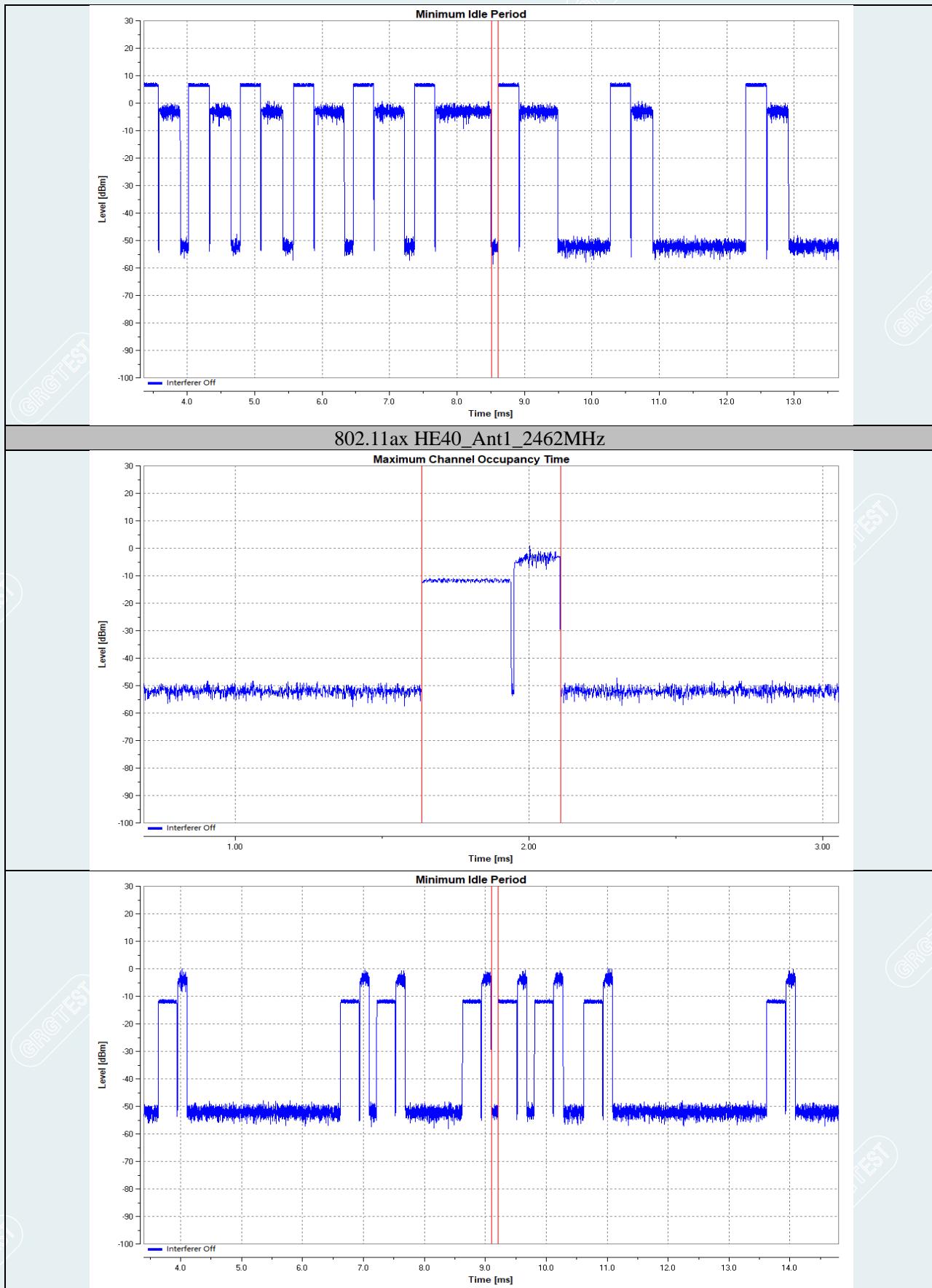


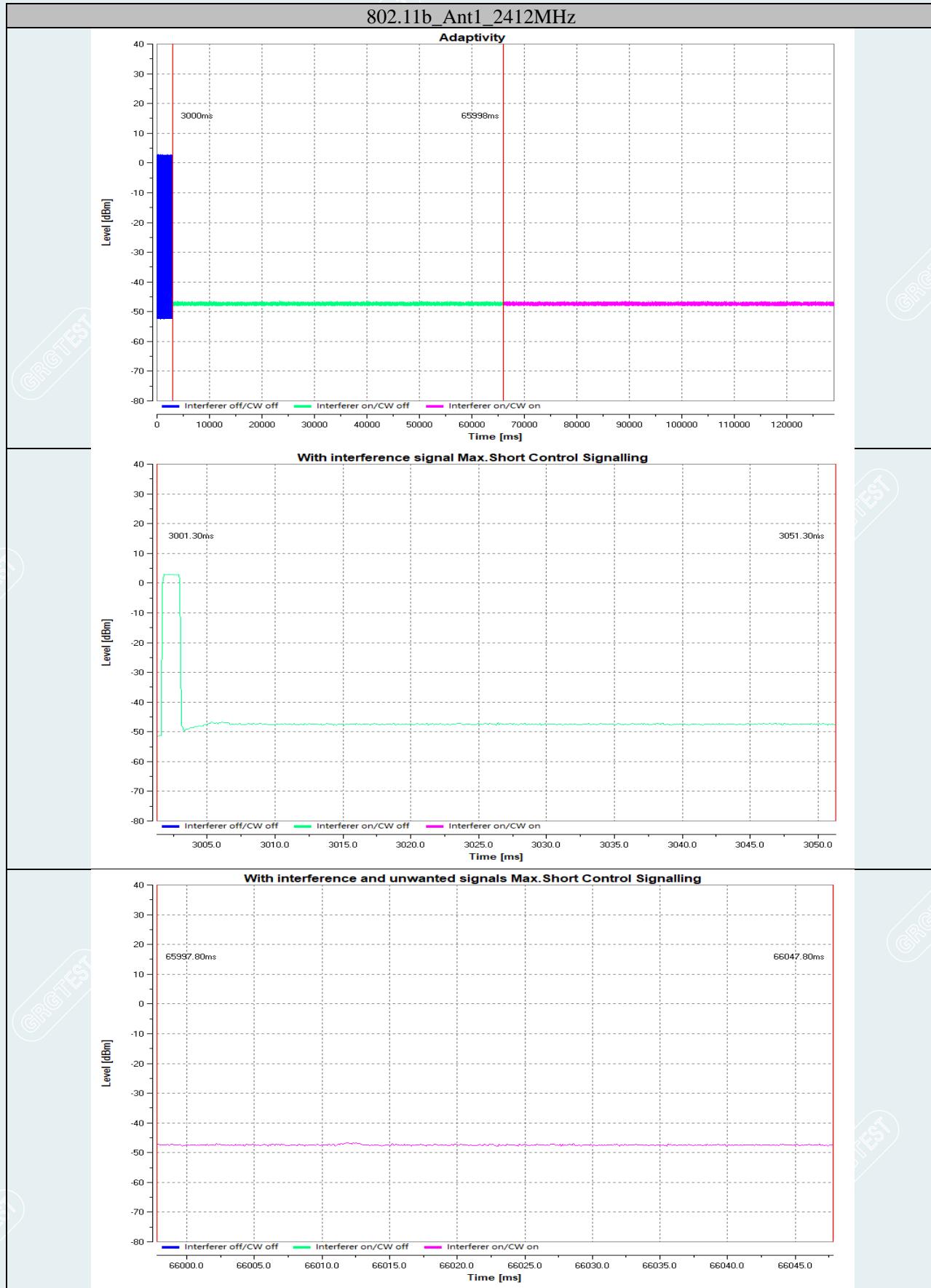


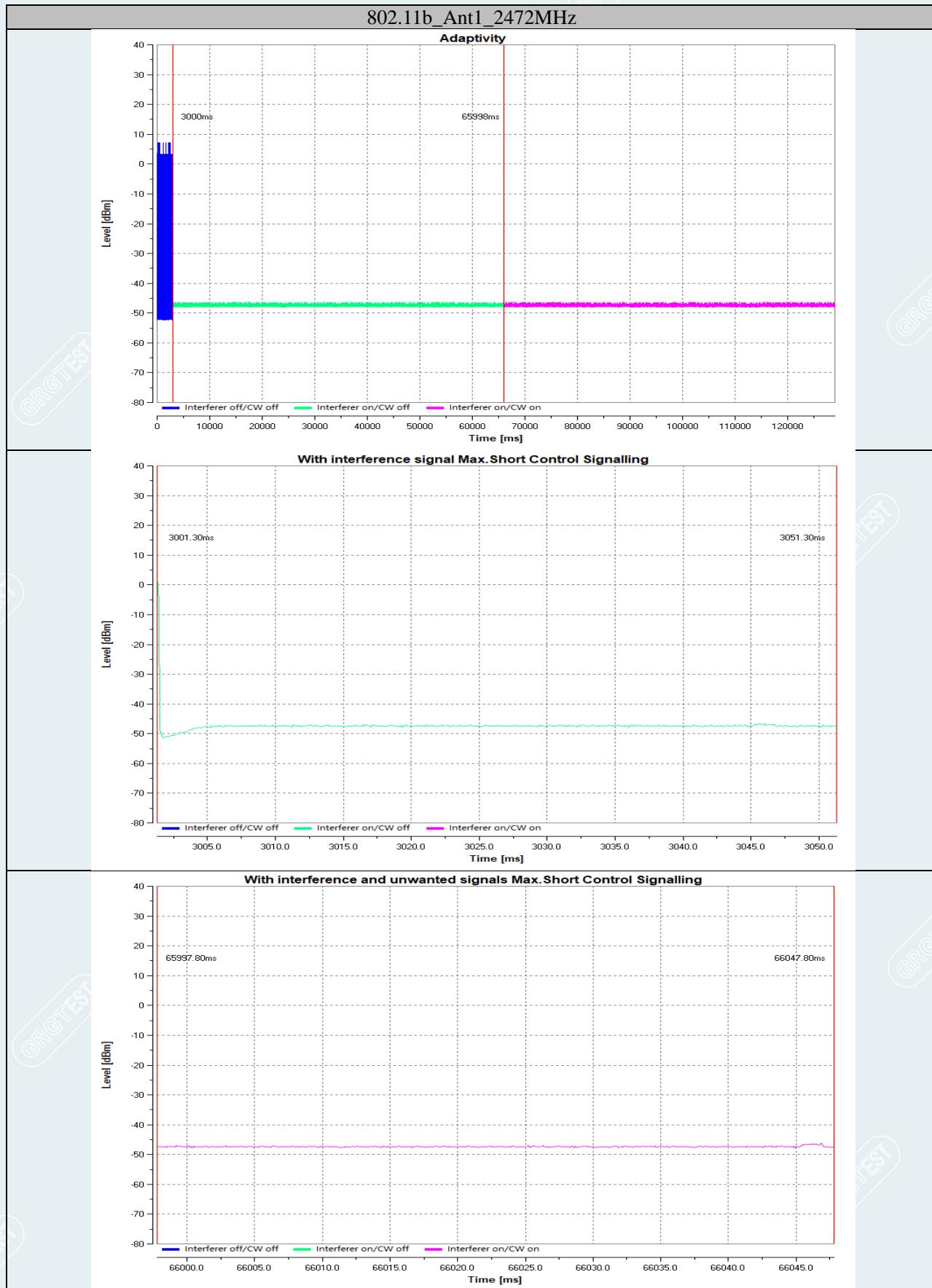


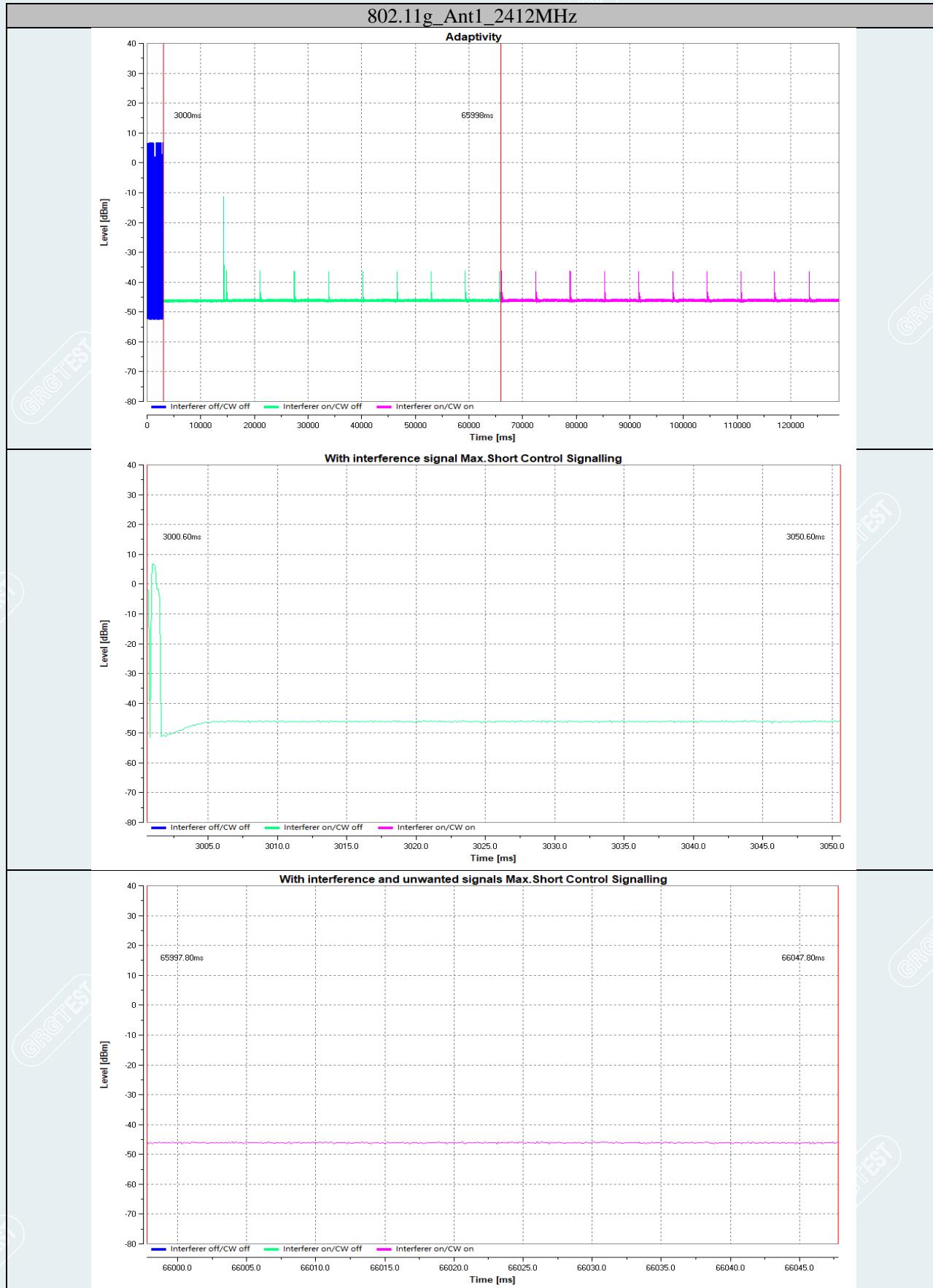


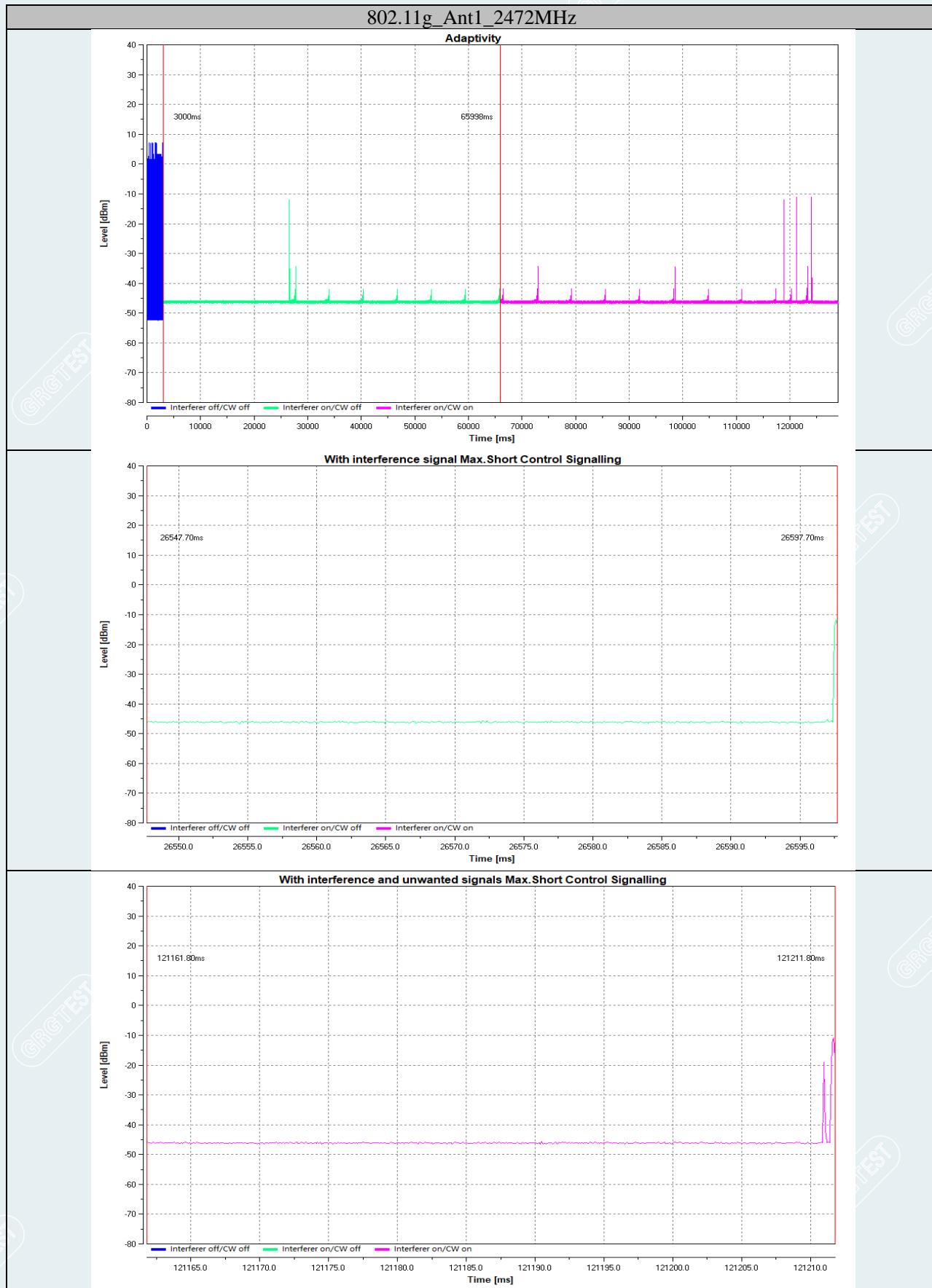


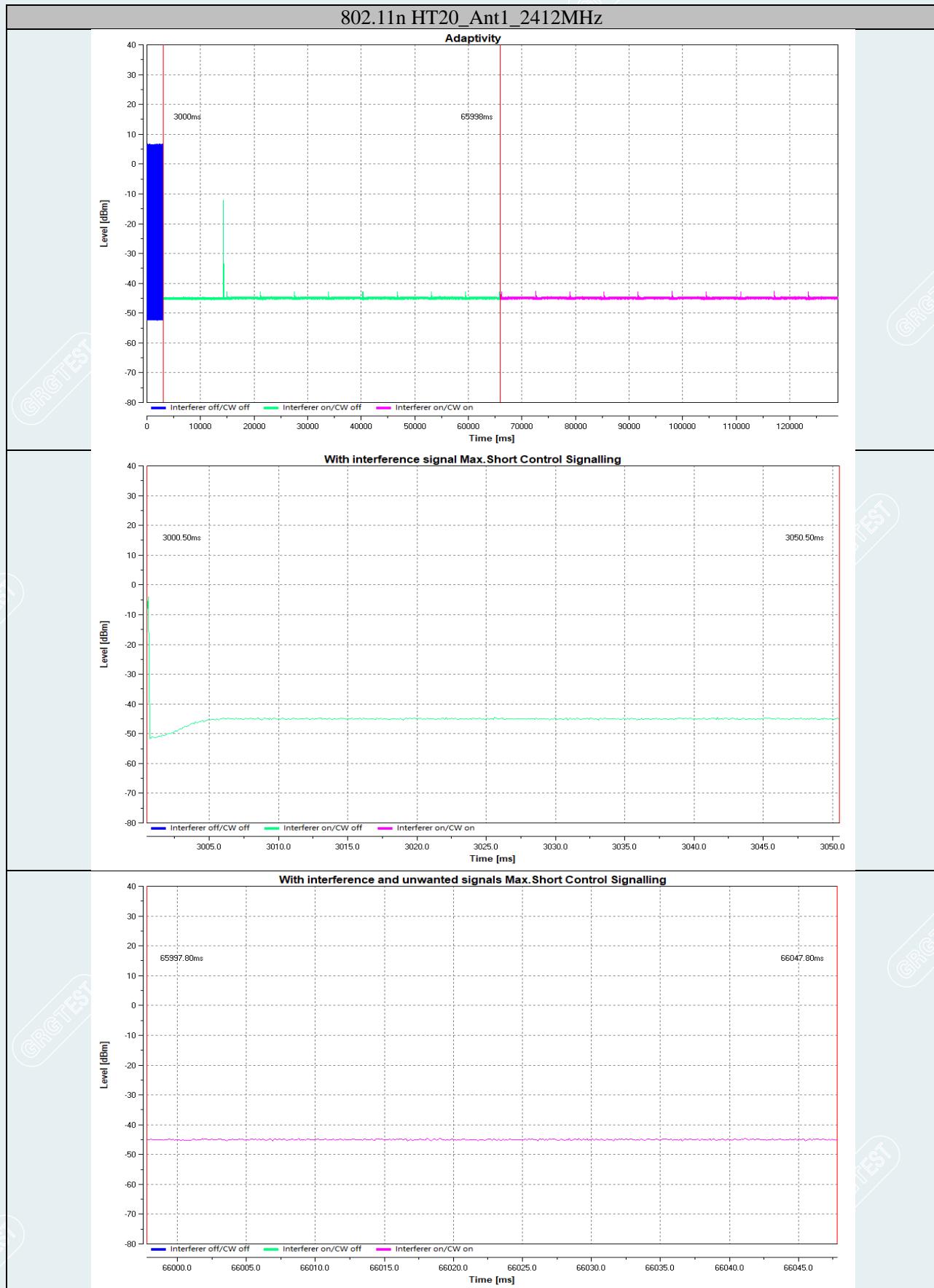


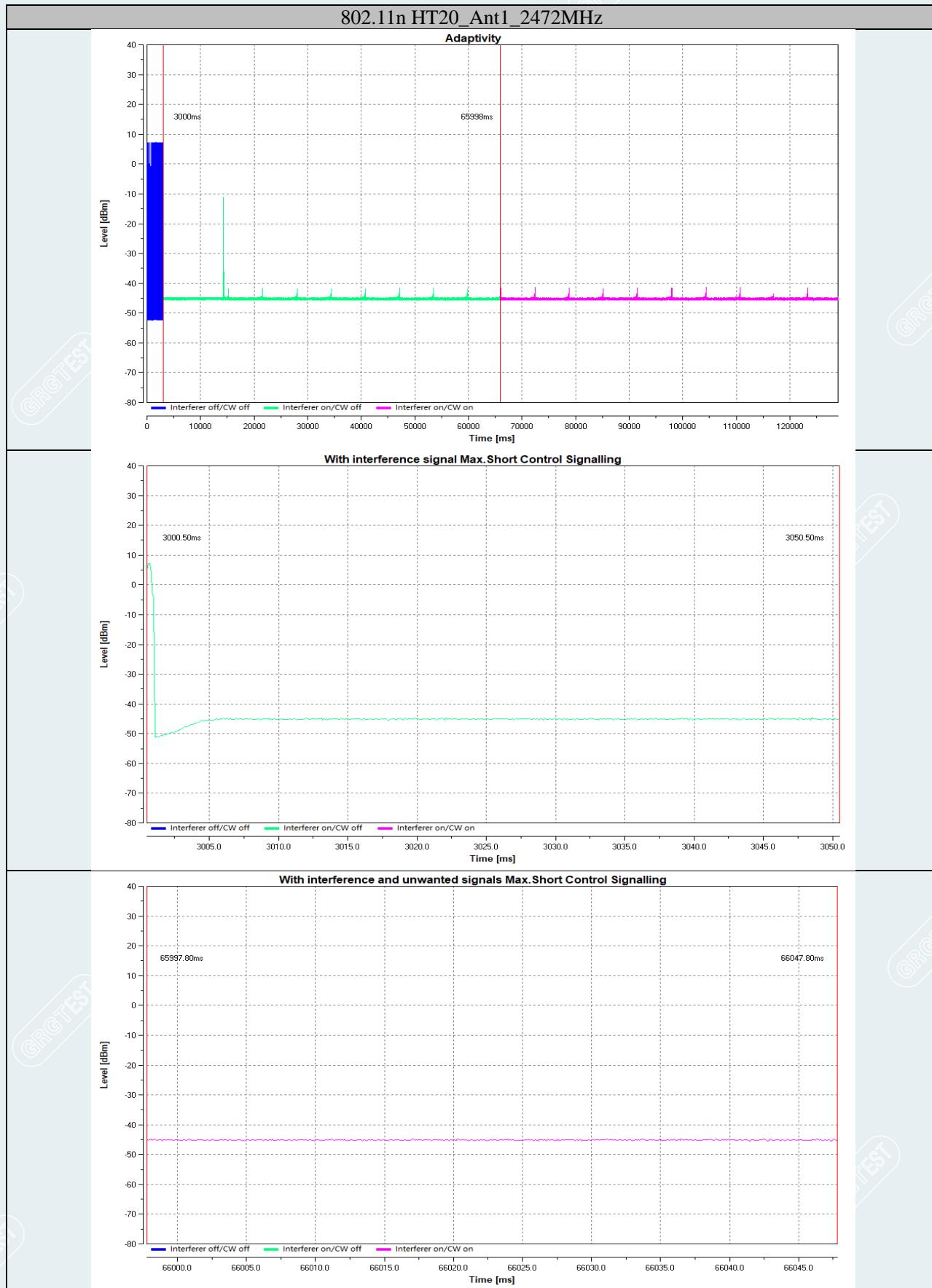


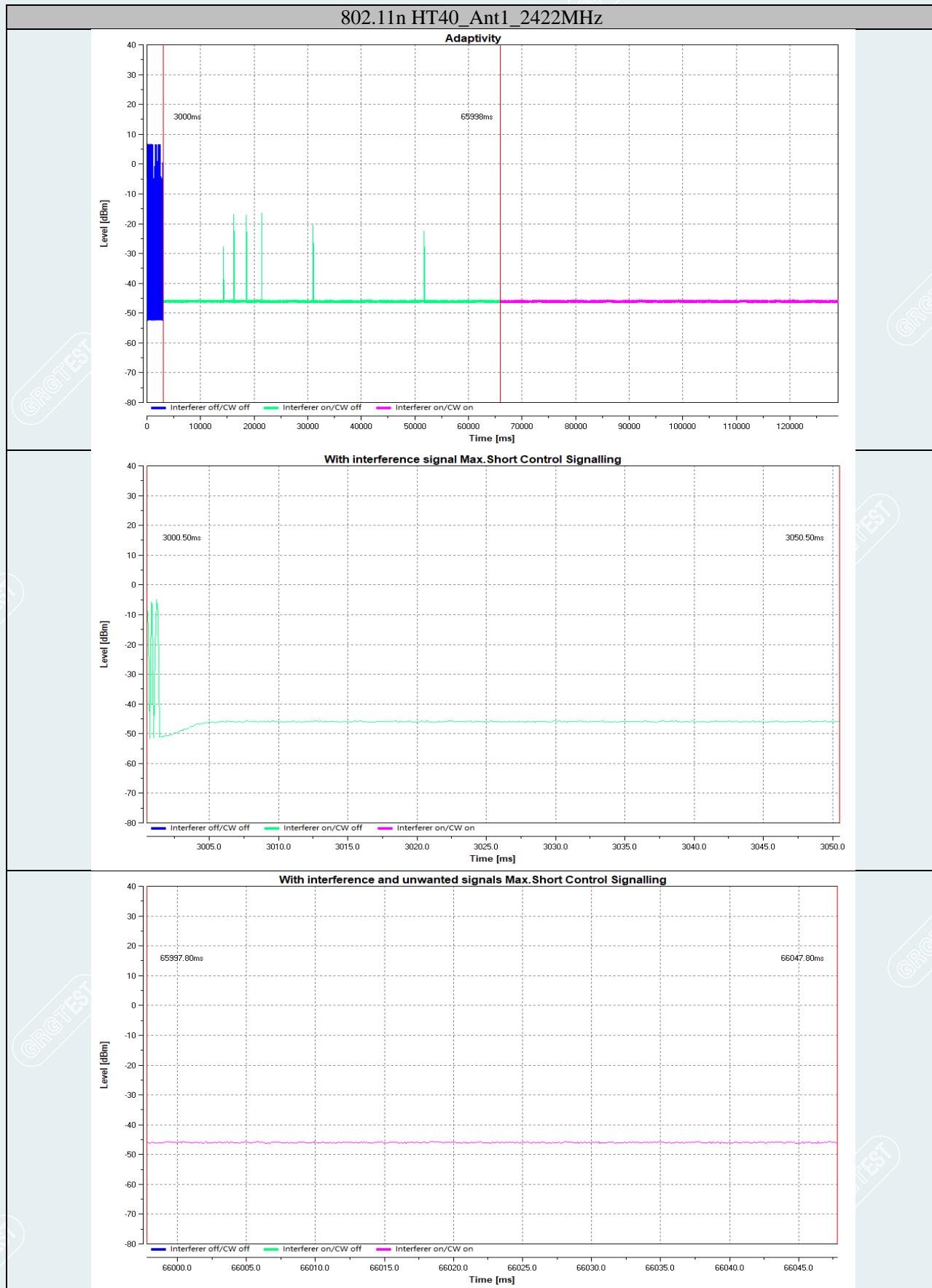


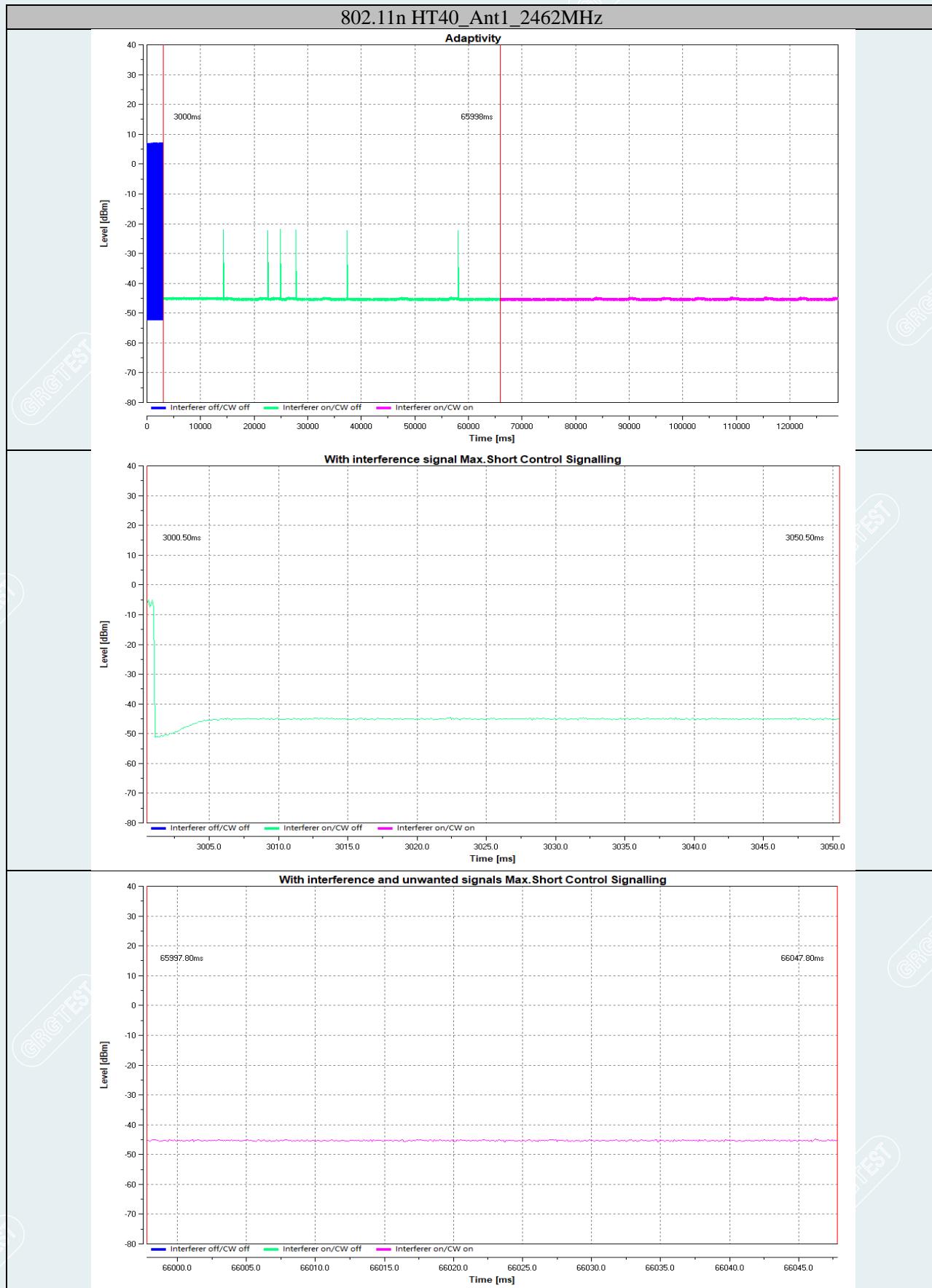


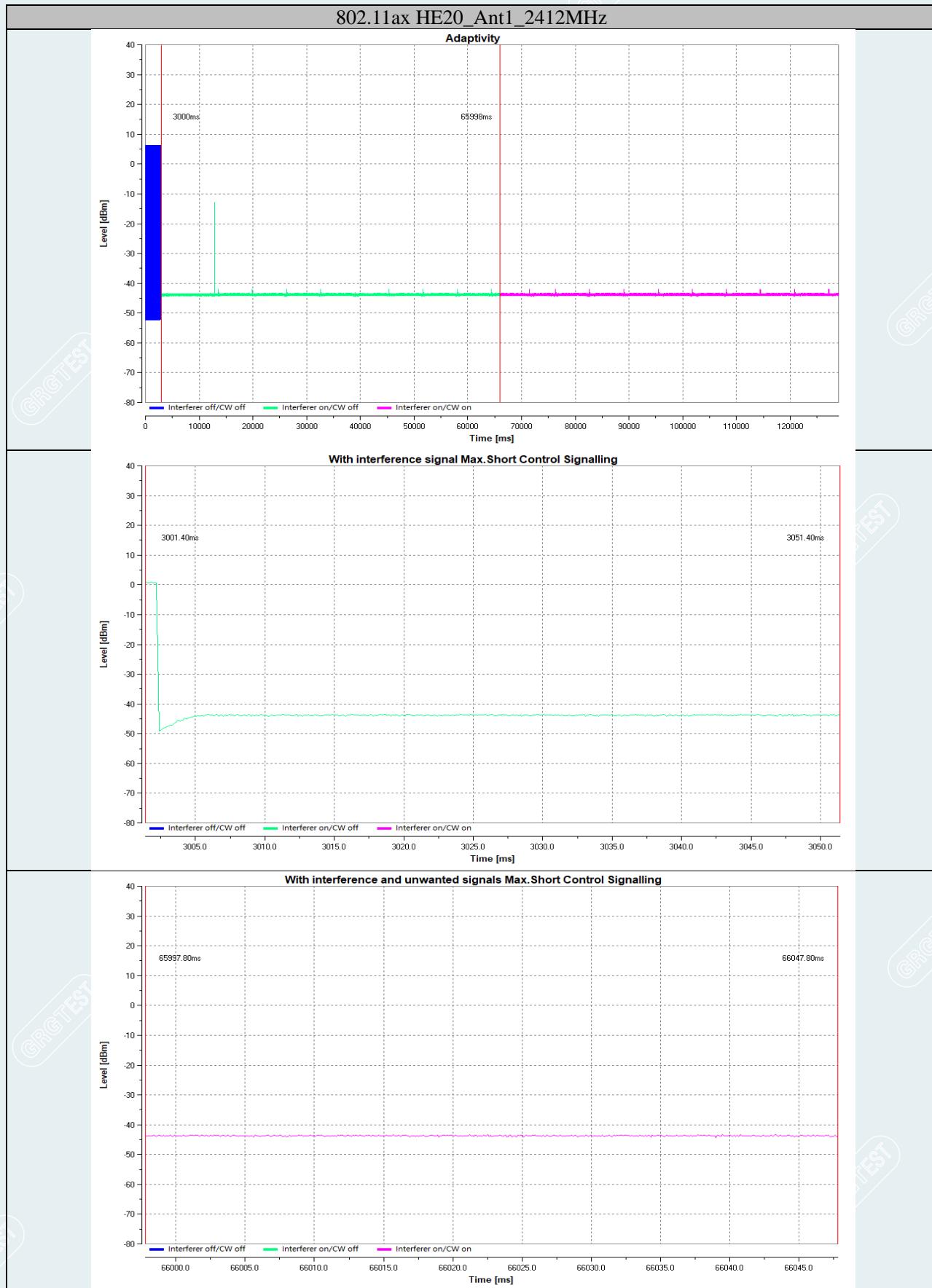


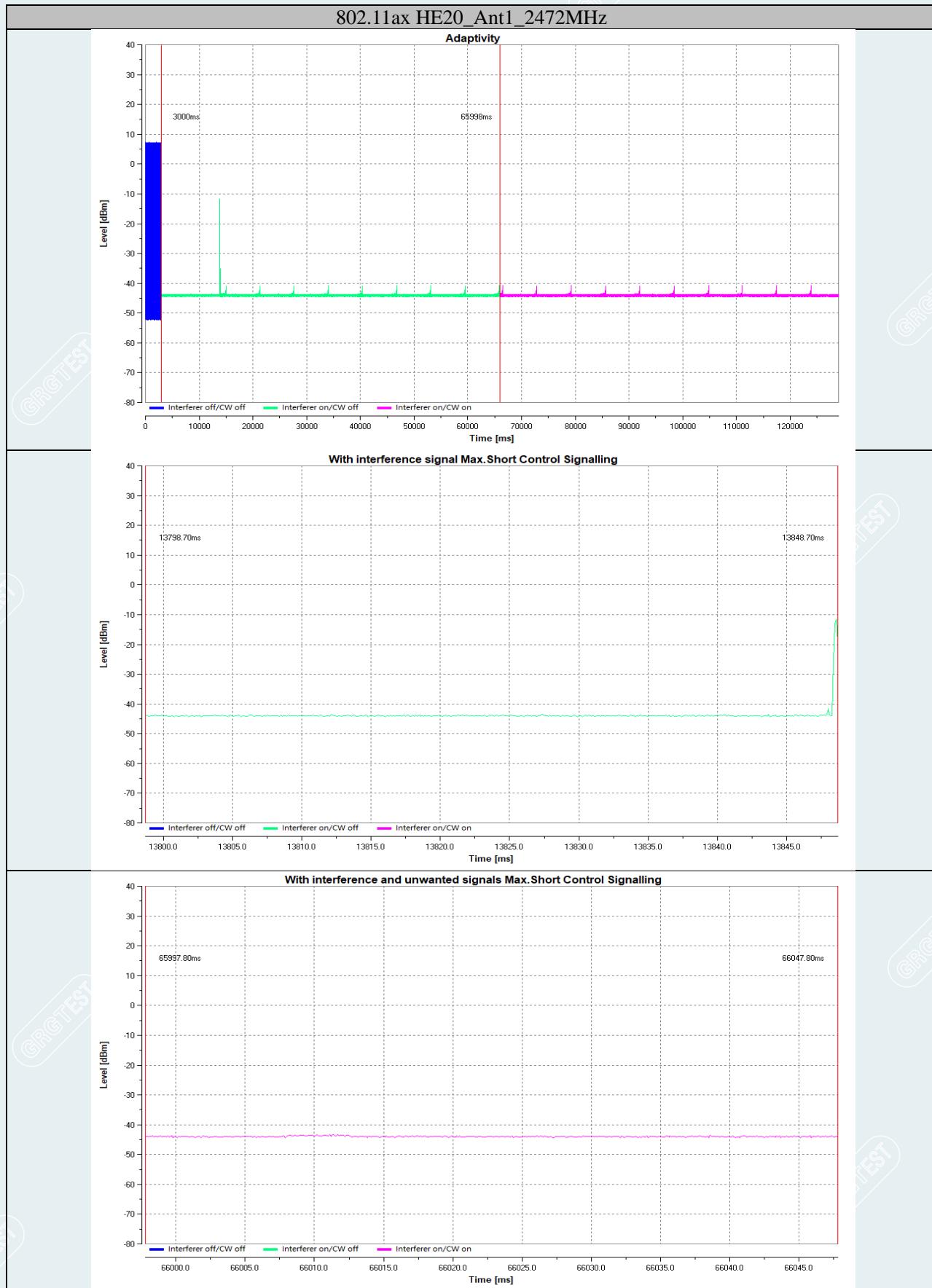


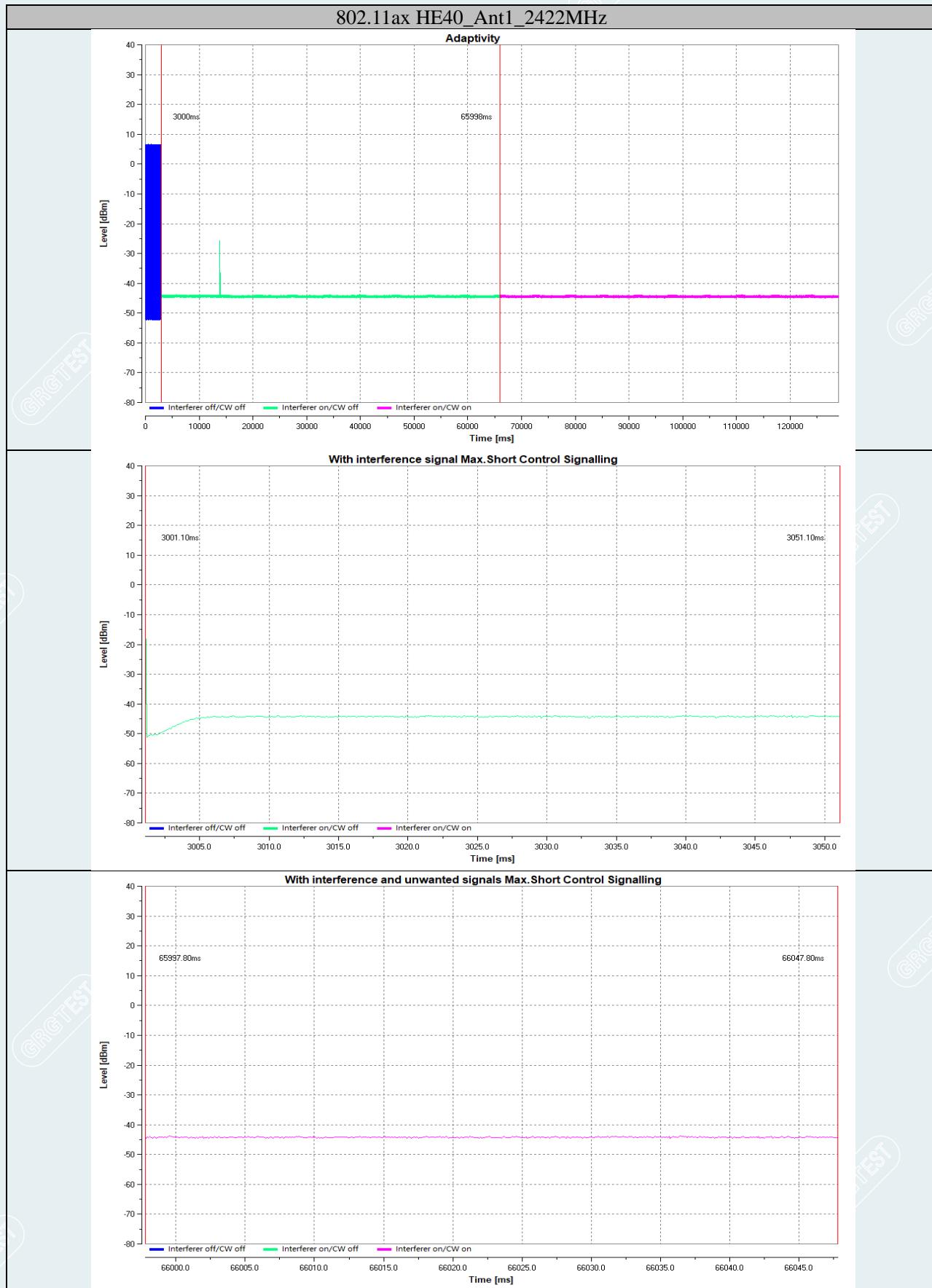


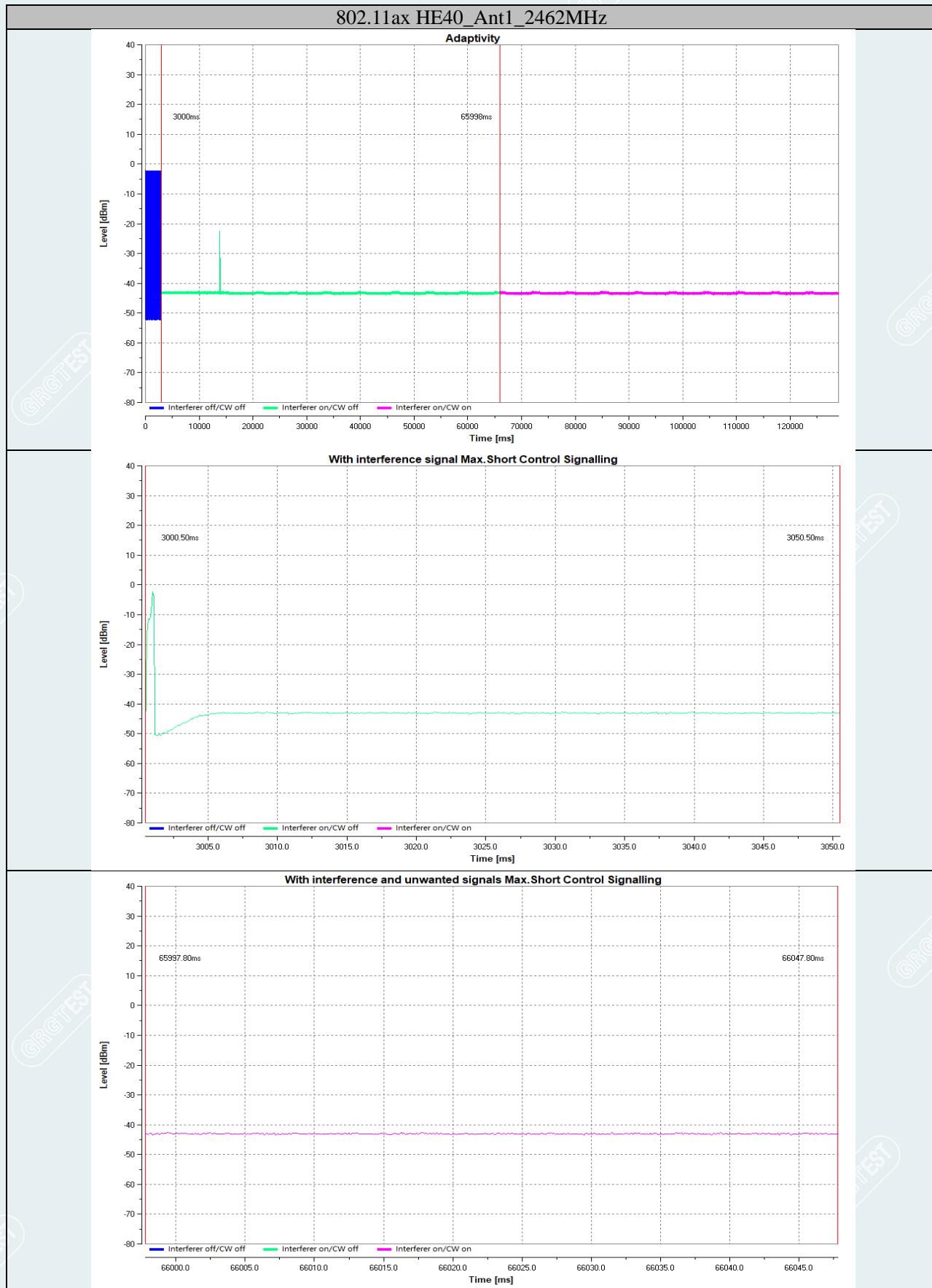












5.4 OCCUPIED CHANNEL BANDWIDTH

Test Requirement: EN300 328 V2.2.2/ 4.3.2.7

Test Method: EN300 328 V2.2.2/5.4.7.2.1

5.4.1 LIMIT

This requirement applies to all types of non-FHSS equipment.

The Occupied Channel Bandwidth shall fall completely within the band given in table 2.

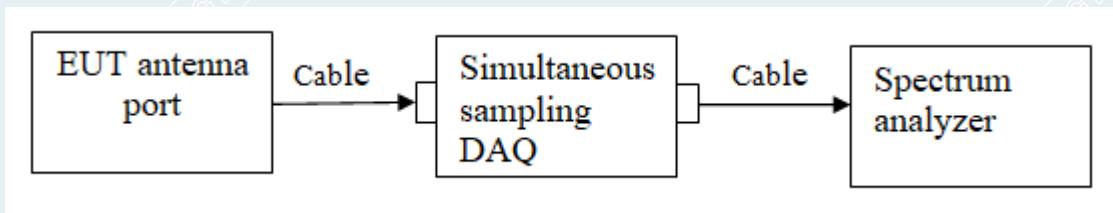
In addition, for non-adaptive equipment using wide band modulations other than FHSS and with e.i.r.p. greater than 10 dBm, the occupied channel bandwidth shall be less than 20 MHz.

Table 2: Service frequency bands

	Service frequency bands
Transmit	2 400 MHz to 2 483,5 MHz
Receive	2 400 MHz to 2 483,5 MHz

5.4.2 TEST CONFIGURATION

Conducted measurement:



5.4.3 TEST PROCEDURES

Test condition: Normal test conditions.

Test channel: 2412MHz, 2442MHz, 2472MHz for 802.11b/g/n HT20/ax HE20
2422MHz, 2442MHz, 2462MHz for 802.11n HT40/ax HE40

Test procedure: Test procedure is according to Clause 5.4.7.2.1 of EN 300 328 V2.2.2

Remark: /

----- The following blanks -----

5.4.4 TEST RESULTS

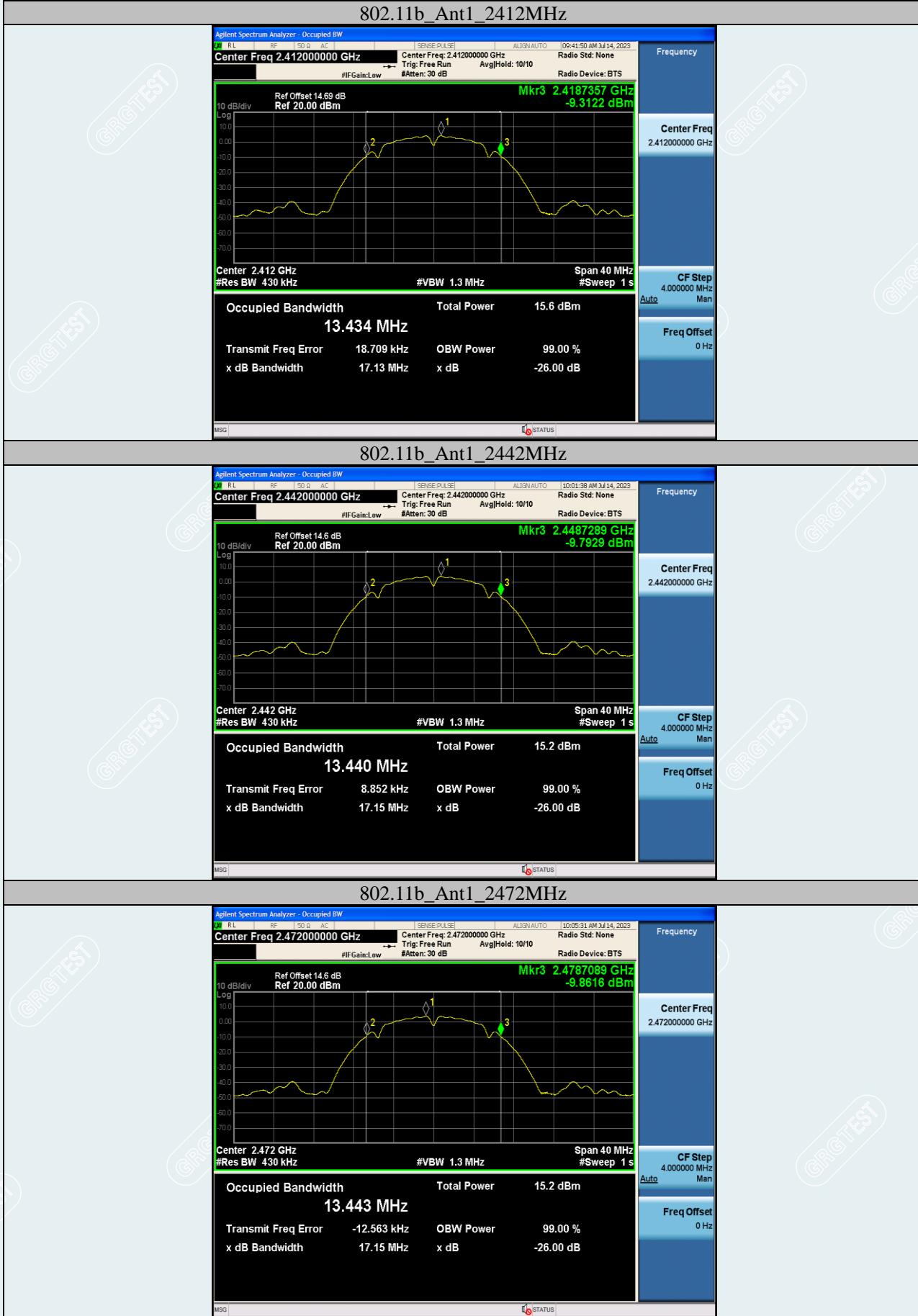
Test environment: Normal condition:
25.8°C/57%RH/101.0kPa

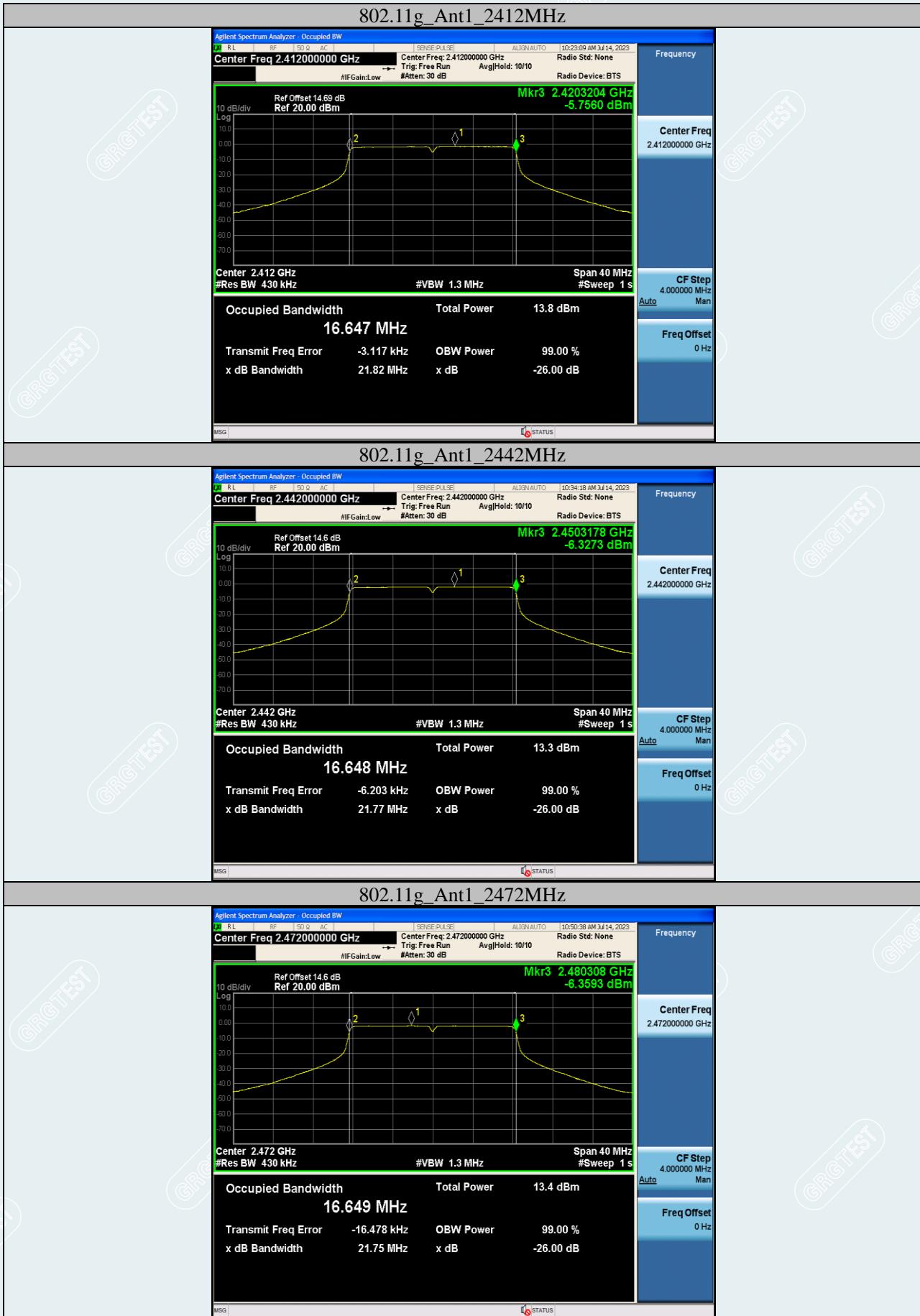
Test Engineer: Huang Tianmei

Test Date: 2023-07-14 ~ 2023-07-24

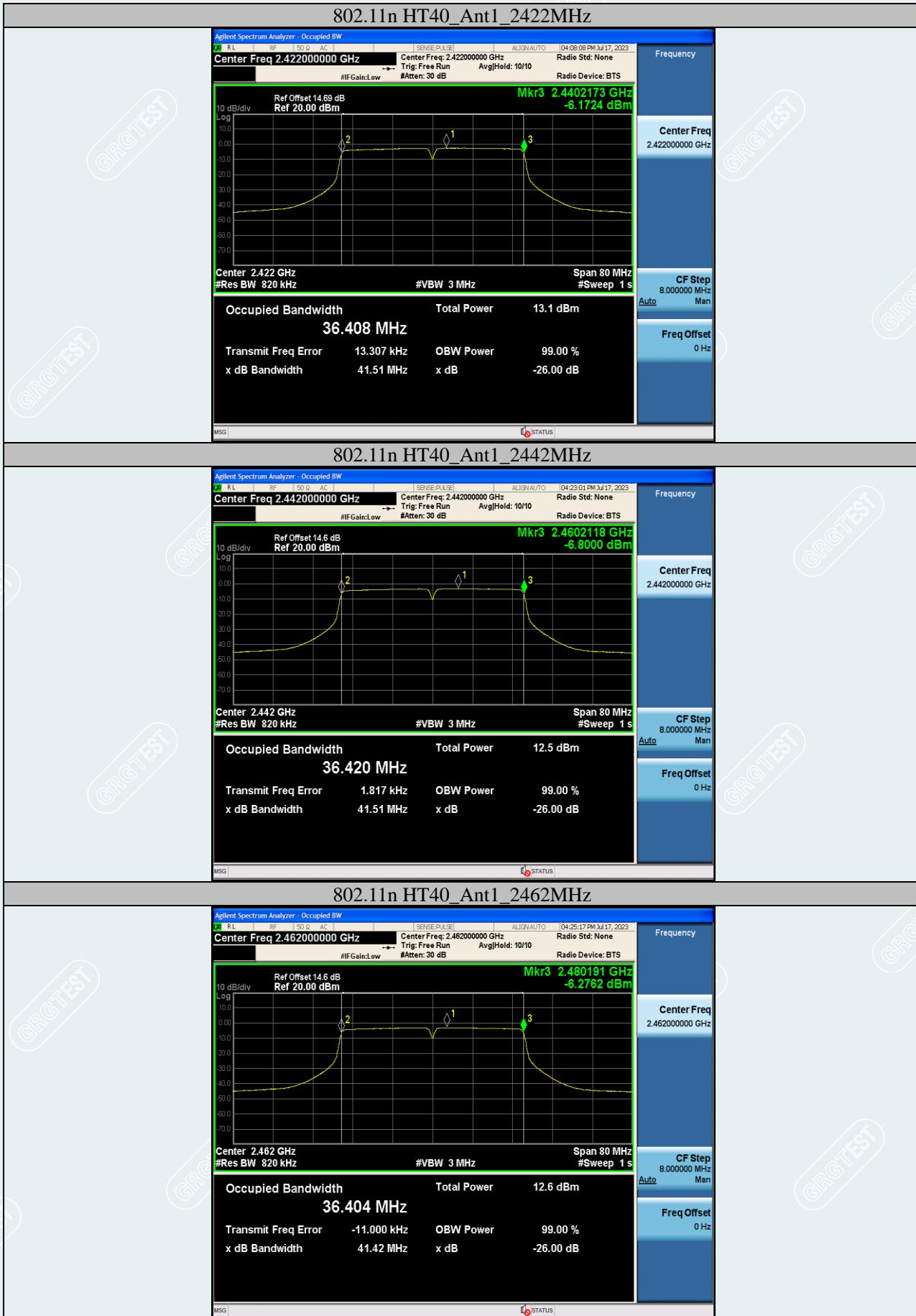
Test Mode	Antenna	Freq[MHz]	OCB[MHz]	F _L [MHz]	F _H [MHz]	Limit[MHz]	Verdict
802.11b	Ant1	2412	13.434	2405.3017	2418.7357	2400 to 2483.5	PASS
		2442	13.440	2435.2889	2448.7289	2400 to 2483.5	PASS
		2472	13.443	2465.2659	2478.7089	2400 to 2483.5	PASS
802.11g	Ant1	2412	16.647	2403.6734	2420.3204	2400 to 2483.5	PASS
		2442	16.648	2433.6698	2450.3178	2400 to 2483.5	PASS
		2472	16.649	2463.6590	2480.3080	2400 to 2483.5	PASS
802.11n HT20	Ant1	2412	17.872	2403.0616	2420.9336	2400 to 2483.5	PASS
		2442	17.875	2433.0541	2450.9291	2400 to 2483.5	PASS
		2472	17.880	2463.0360	2480.9160	2400 to 2483.5	PASS
802.11n HT40	Ant1	2422	36.408	2403.8093	2440.2173	2400 to 2483.5	PASS
		2442	36.420	2423.7918	2460.2118	2400 to 2483.5	PASS
		2462	36.404	2443.7870	2480.1910	2400 to 2483.5	PASS
802.11ax HE20	Ant1	2412	19.074	2402.4525	2421.5265	2400 to 2483.5	PASS
		2442	19.079	2432.4448	2451.5238	2400 to 2483.5	PASS
		2472	19.079	2462.4358	2481.5148	2400 to 2483.5	PASS
802.11ax HE40	Ant1	2422	37.916	2403.0572	2440.9732	2400 to 2483.5	PASS
		2442	37.921	2423.0421	2460.9631	2400 to 2483.5	PASS
		2462	37.917	2443.0311	2480.9481	2400 to 2483.5	PASS

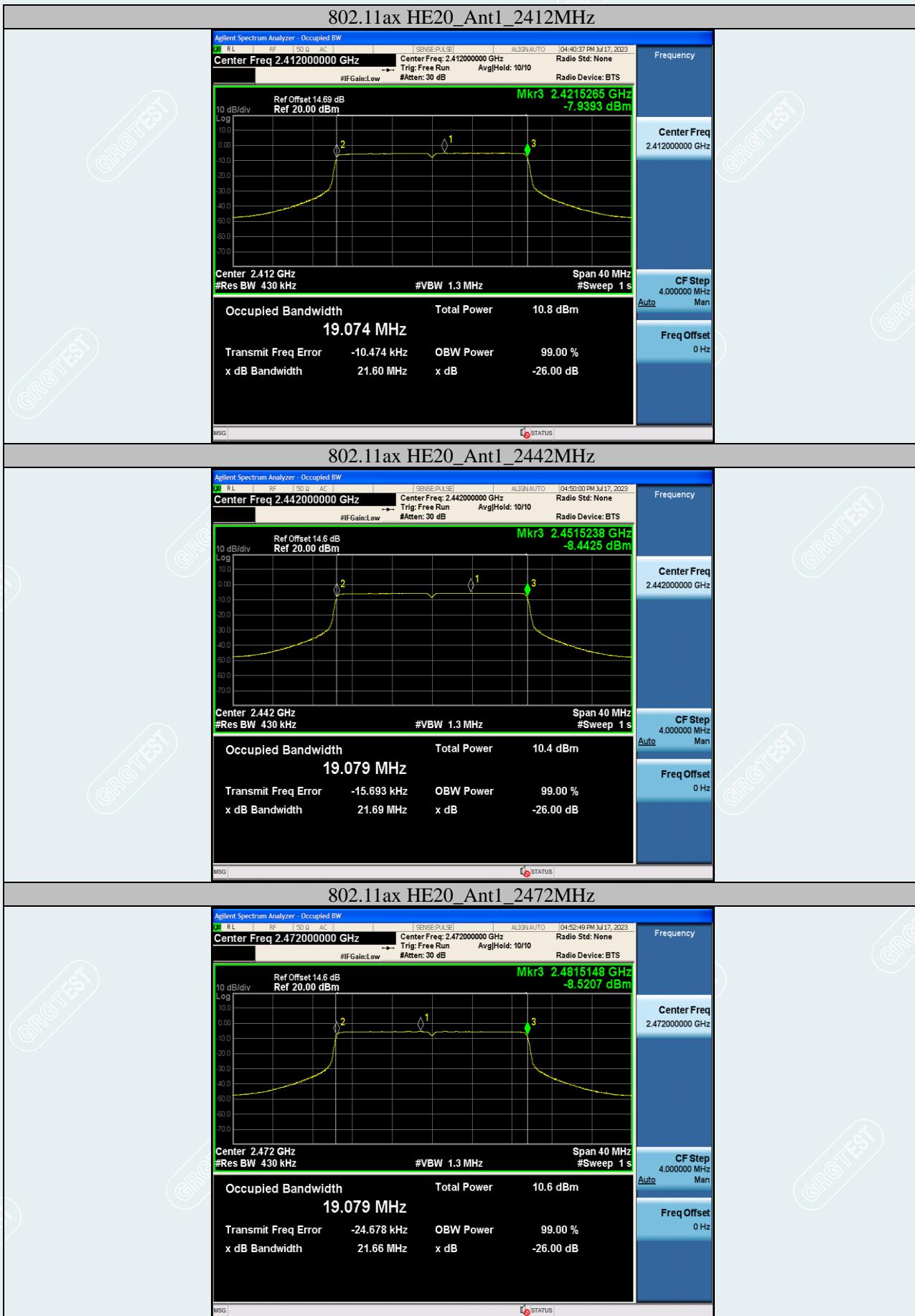
----- The following blanks -----

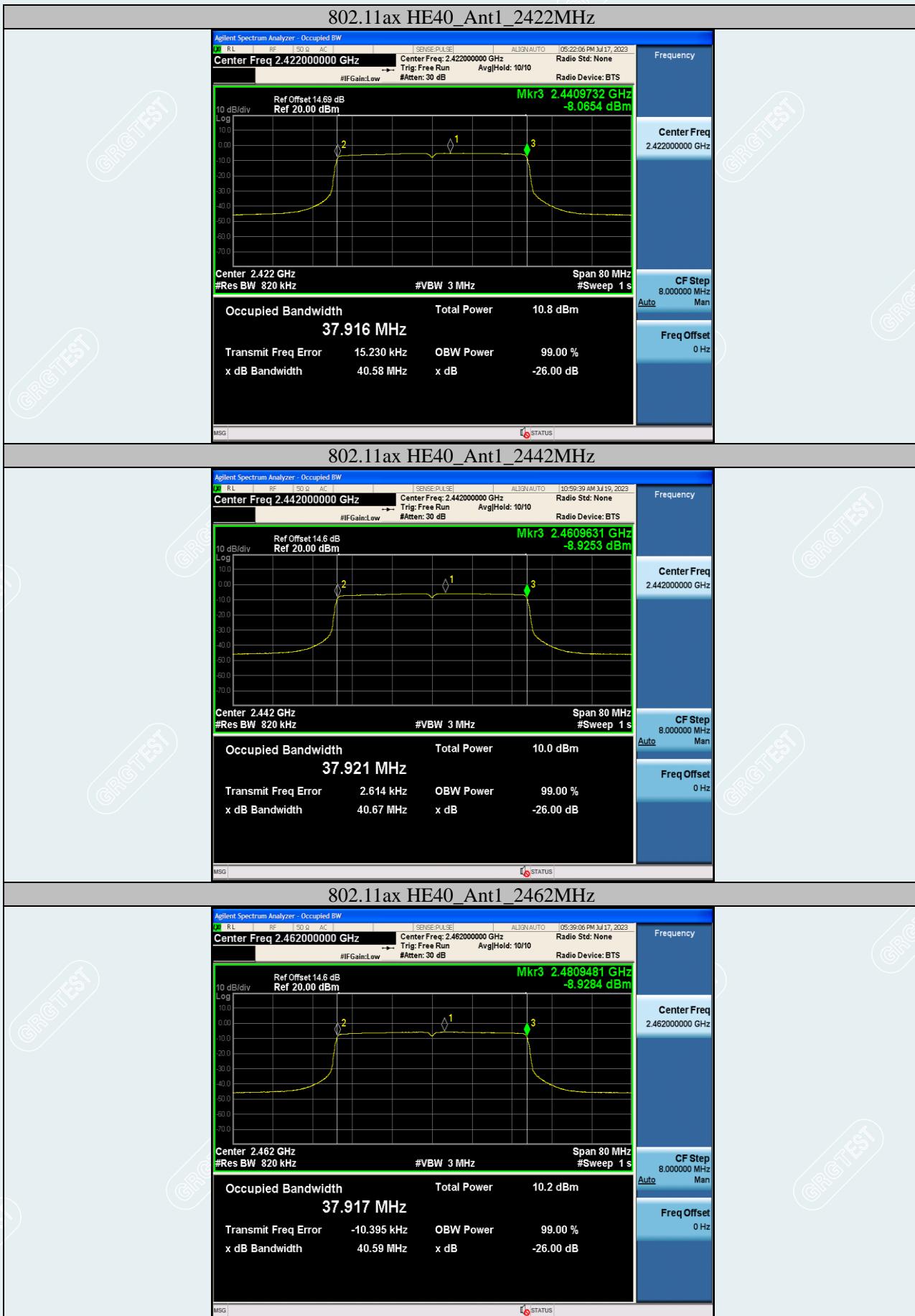
Test Graphs











5.5 TRANSMITTER UNWANTED EMISSIONS IN THE OUT-OF-BAND DOMAIN

Test Requirement: EN300 328 V2.2.2/ 4.3.2.8

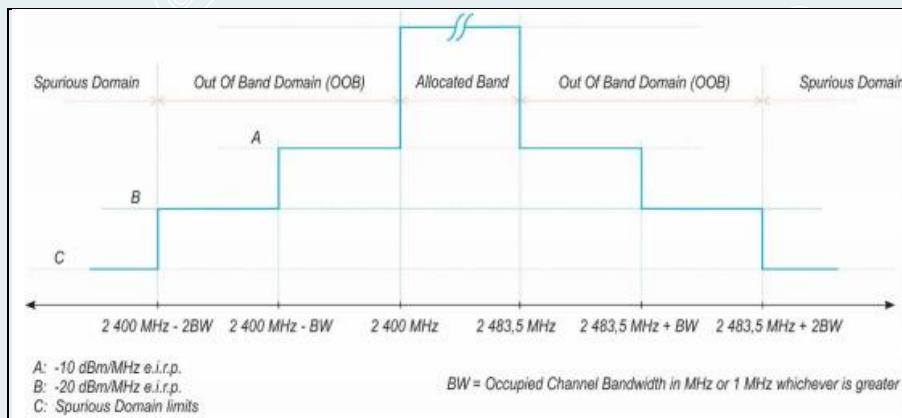
Test Method: EN300 328 V2.2.2/5.4.8.2.1

5.5.1 LIMIT

This requirement applies to all types of FHSS equipment and all types of non-FHSS equipment.

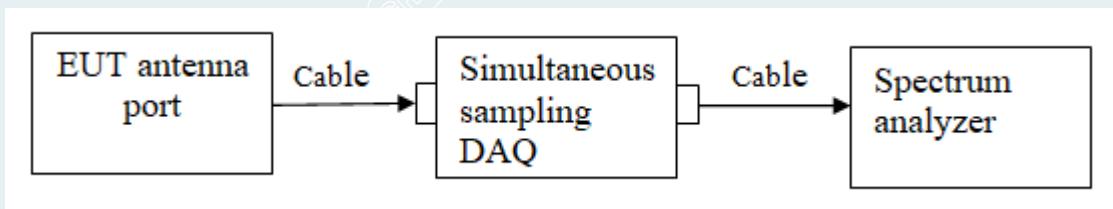
The transmitter unwanted emissions in the out-of-band domain but outside the allocated band, shall not exceed the values provided by the mask in figure 3.

Within the band specified in table 3, the Out-of-band emissions are fulfilled by compliance with the Occupied Channel Bandwidth requirement in clause 6.10.1.1 and 6.10.1.2.



5.5.2 TEST CONFIGURATION

Conducted measurement:



5.5.3 TEST PROCEDURES

Test condition: Normal test conditions.

Test channel: 2412MHz, 2472MHz for 802.11b/g/n HT20/ax HE20
2422MHz, 2462MHz for 802.11n HT40/ax HE40

Test procedure: Test procedure is according to Clause 5.4.8.2.1 of EN 300 328 V2.2.2

Remark: /

5.5.4 TEST RESULTS

Test environment: Normal condition:

25.8°C/57%RH/101.0kPa

Test Engineer: Huang Tianmei

Test Date: 2023-07-14 ~ 2023-07-24

Test Mode	Antenna	Freq[MHz]	Freq. [MHz]	Level[dBm]	Limit[dBm]	Verdict
802.11b	Ant1	2412	2373.632	-46.32	-20.00	PASS
			2374.066	-44.94	-20.00	PASS
			2375.066	-45.90	-20.00	PASS
			2376.066	-45.76	-20.00	PASS
			2377.066	-45.62	-20.00	PASS
			2378.066	-45.46	-20.00	PASS
			2379.066	-46.16	-20.00	PASS
			2380.066	-45.86	-20.00	PASS
			2381.066	-46.03	-20.00	PASS
			2382.066	-45.34	-20.00	PASS
			2383.066	-44.54	-20.00	PASS
			2384.066	-45.47	-20.00	PASS
			2385.066	-45.23	-20.00	PASS
			2386.066	-44.79	-20.00	PASS
			2387.066	-45.05	-10.00	PASS
			2387.5	-44.69	-10.00	PASS
			2388.5	-45.66	-10.00	PASS
			2389.5	-43.07	-10.00	PASS
			2390.5	-44.29	-10.00	PASS
			2391.5	-44.62	-10.00	PASS
			2392.5	-43.91	-10.00	PASS
			2393.5	-40.47	-10.00	PASS
			2394.5	-38.65	-10.00	PASS
			2395.5	-39.29	-10.00	PASS
			2396.5	-36.12	-10.00	PASS
			2397.5	-34.15	-10.00	PASS
			2398.5	-36.19	-10.00	PASS
			2399.5	-33.67	-10.00	PASS
			2484	-46.34	-10.00	PASS
			2485	-45.01	-10.00	PASS
			2486	-45.45	-10.00	PASS
			2487	-45.87	-10.00	PASS
			2488	-44.75	-10.00	PASS
			2489	-45.75	-10.00	PASS
			2490	-46.37	-10.00	PASS
			2491	-45.78	-10.00	PASS
			2492	-45.08	-10.00	PASS
			2493	-45.00	-10.00	PASS
			2494	-45.47	-10.00	PASS
			2495	-45.87	-10.00	PASS
			2496	-45.59	-10.00	PASS
			2496.434	-45.46	-10.00	PASS
			2497.434	-45.46	-20.00	PASS
			2498.434	-44.88	-20.00	PASS
			2499.434	-46.08	-20.00	PASS
			2500.434	-46.18	-20.00	PASS

			2501.434	-45.22	-20.00	PASS
			2502.434	-45.52	-20.00	PASS
			2503.434	-44.95	-20.00	PASS
			2504.434	-45.72	-20.00	PASS
			2505.434	-45.83	-20.00	PASS
			2506.434	-45.68	-20.00	PASS
			2507.434	-45.19	-20.00	PASS
			2508.434	-45.70	-20.00	PASS
			2509.434	-46.13	-20.00	PASS
			2509.868	-45.57	-20.00	PASS
			2373.614	-46.26	-20.00	PASS
			2374.057	-46.34	-20.00	PASS
			2375.057	-46.31	-20.00	PASS
			2376.057	-46.32	-20.00	PASS
			2377.057	-45.06	-20.00	PASS
			2378.057	-46.04	-20.00	PASS
			2379.057	-46.28	-20.00	PASS
			2380.057	-47.08	-20.00	PASS
			2381.057	-46.54	-20.00	PASS
			2382.057	-46.28	-20.00	PASS
			2383.057	-46.43	-20.00	PASS
			2384.057	-46.09	-20.00	PASS
			2385.057	-46.15	-20.00	PASS
			2386.057	-46.36	-20.00	PASS
			2387.057	-46.18	-10.00	PASS
			2387.5	-46.36	-10.00	PASS
			2388.5	-46.17	-10.00	PASS
			2389.5	-47.11	-10.00	PASS
			2390.5	-46.56	-10.00	PASS
			2391.5	-45.81	-10.00	PASS
			2392.5	-46.12	-10.00	PASS
			2393.5	-45.69	-10.00	PASS
			2394.5	-46.41	-10.00	PASS
			2395.5	-46.31	-10.00	PASS
			2396.5	-46.68	-10.00	PASS
			2397.5	-46.33	-10.00	PASS
			2398.5	-46.13	-10.00	PASS
			2399.5	-46.28	-10.00	PASS
			2484	-23.90	-10.00	PASS
			2485	-24.50	-10.00	PASS
			2486	-27.51	-10.00	PASS
			2487	-29.52	-10.00	PASS
			2488	-29.79	-10.00	PASS
			2489	-32.12	-10.00	PASS
			2490	-34.78	-10.00	PASS
			2491	-36.27	-10.00	PASS
			2492	-38.00	-10.00	PASS
			2493	-41.48	-10.00	PASS
			2494	-42.14	-10.00	PASS
			2495	-44.62	-10.00	PASS
			2496	-44.55	-10.00	PASS
			2496.443	-43.29	-10.00	PASS
			2497.443	-44.63	-20.00	PASS
			2498.443	-43.63	-20.00	PASS
			2499.443	-45.63	-20.00	PASS
			2500.443	-45.54	-20.00	PASS
			2501.443	-44.22	-20.00	PASS

			2502.443	-45.18	-20.00	PASS
			2503.443	-44.81	-20.00	PASS
			2504.443	-43.42	-20.00	PASS
			2505.443	-44.89	-20.00	PASS
			2506.443	-44.80	-20.00	PASS
			2507.443	-44.48	-20.00	PASS
			2508.443	-44.85	-20.00	PASS
			2509.443	-45.25	-20.00	PASS
			2509.886	-45.15	-20.00	PASS
802.11g	Ant1	2412	2366.853	-46.11	-20.00	PASS
			2367.206	-45.31	-20.00	PASS
			2367.853	-45.75	-20.00	PASS
			2368.853	-45.60	-20.00	PASS
			2369.853	-45.66	-20.00	PASS
			2370.853	-45.79	-20.00	PASS
			2371.853	-44.26	-20.00	PASS
			2372.853	-45.56	-20.00	PASS
			2373.853	-45.46	-20.00	PASS
			2374.853	-46.05	-20.00	PASS
			2375.853	-45.55	-20.00	PASS
			2376.853	-44.54	-20.00	PASS
			2377.853	-44.08	-20.00	PASS
			2378.853	-44.44	-20.00	PASS
			2379.853	-43.70	-20.00	PASS
			2380.853	-41.56	-20.00	PASS
			2381.853	-42.82	-20.00	PASS
			2382.853	-41.43	-20.00	PASS
			2383.5	-42.81	-10.00	PASS
			2383.853	-42.25	-10.00	PASS
			2384.5	-40.25	-10.00	PASS
			2385.5	-41.27	-10.00	PASS
			2386.5	-40.62	-10.00	PASS
			2387.5	-40.33	-10.00	PASS
			2388.5	-39.29	-10.00	PASS
			2389.5	-37.28	-10.00	PASS
			2390.5	-35.83	-10.00	PASS
			2391.5	-35.11	-10.00	PASS
			2392.5	-32.94	-10.00	PASS
			2393.5	-29.70	-10.00	PASS
			2394.5	-27.28	-10.00	PASS
			2395.5	-25.06	-10.00	PASS
			2396.5	-22.91	-10.00	PASS
			2397.5	-19.68	-10.00	PASS
			2398.5	-16.38	-10.00	PASS
			2399.5	-14.17	-10.00	PASS
			2484	-45.90	-10.00	PASS
			2485	-44.89	-10.00	PASS
			2486	-45.85	-10.00	PASS
			2487	-45.67	-10.00	PASS
			2488	-45.56	-10.00	PASS
			2489	-45.42	-10.00	PASS
			2490	-45.83	-10.00	PASS
			2491	-46.09	-10.00	PASS
			2492	-46.07	-10.00	PASS
			2493	-46.19	-10.00	PASS
			2494	-45.98	-10.00	PASS
			2495	-46.22	-10.00	PASS

		2496	-44.15	-10.00	PASS
		2497	-45.38	-10.00	PASS
		2498	-45.55	-10.00	PASS
		2499	-45.79	-10.00	PASS
		2499.647	-45.98	-10.00	PASS
		2500	-45.35	-10.00	PASS
		2500.647	-45.66	-20.00	PASS
		2501.647	-45.66	-20.00	PASS
		2502.647	-45.70	-20.00	PASS
		2503.647	-45.56	-20.00	PASS
		2504.647	-45.83	-20.00	PASS
		2505.647	-45.73	-20.00	PASS
		2506.647	-45.62	-20.00	PASS
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		2508.647	-45.38	-20.00	PASS
		2509.647	-44.63	-20.00	PASS
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		2513.647	-46.54	-20.00	PASS
		2514.647	-44.91	-20.00	PASS
		2515.647	-45.60	-20.00	PASS
		2516.294	-45.14	-20.00	PASS
		2516.647	-45.83	-20.00	PASS
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		2367.851	-46.28	-20.00	PASS
		2368.851	-46.11	-20.00	PASS
		2369.851	-46.47	-20.00	PASS
		2370.851	-45.86	-20.00	PASS
		2371.851	-46.59	-20.00	PASS
		2372.851	-46.21	-20.00	PASS
		2373.851	-46.79	-20.00	PASS
		2374.851	-46.58	-20.00	PASS
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		2378.851	-46.48	-20.00	PASS
		2379.851	-45.69	-20.00	PASS
		2380.851	-47.09	-20.00	PASS
		2381.851	-46.06	-20.00	PASS
		2382.851	-45.92	-20.00	PASS
		2383.5	-46.33	-10.00	PASS
		2383.851	-45.28	-10.00	PASS
		2384.5	-46.59	-10.00	PASS
		2385.5	-46.31	-10.00	PASS
		2386.5	-45.60	-10.00	PASS
		2387.5	-46.24	-10.00	PASS
		2388.5	-46.08	-10.00	PASS
		2389.5	-45.49	-10.00	PASS
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		2391.5	-46.11	-10.00	PASS
		2392.5	-46.55	-10.00	PASS
		2393.5	-45.99	-10.00	PASS
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			2509.649	-44.45	-20.00	PASS
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			2371.628	-46.43	-20.00	PASS
			2372.628	-46.16	-20.00	PASS
			2373.628	-46.21	-20.00	PASS
			2374.628	-45.29	-20.00	PASS
			2375.628	-45.63	-20.00	PASS
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		2382.628	-43.80	-10.00	PASS
		2383.5	-44.40	-10.00	PASS
		2384.5	-43.82	-10.00	PASS
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		2396.5	-21.73	-10.00	PASS
		2397.5	-19.43	-10.00	PASS
		2398.5	-17.15	-10.00	PASS
		2399.5	-14.17	-10.00	PASS
		2484	-45.83	-10.00	PASS
		2485	-45.14	-10.00	PASS
		2486	-45.89	-10.00	PASS
		2487	-46.02	-10.00	PASS
		2488	-44.52	-10.00	PASS
		2489	-46.21	-10.00	PASS
		2490	-45.98	-10.00	PASS
		2491	-45.98	-10.00	PASS
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		2494	-46.18	-10.00	PASS
		2495	-45.98	-10.00	PASS
		2496	-45.95	-10.00	PASS
		2497	-46.19	-10.00	PASS
		2498	-46.39	-10.00	PASS
		2499	-46.28	-10.00	PASS
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		2500.872	-45.75	-10.00	PASS
		2501	-45.76	-10.00	PASS
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		2505.872	-46.20	-20.00	PASS
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		2508.872	-46.47	-20.00	PASS
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		2514.872	-45.11	-20.00	PASS
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		2364.74	-46.42	-20.00	PASS
		2365.62	-46.12	-20.00	PASS
		2366.62	-47.41	-20.00	PASS
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		2382.5	-45.66	-10.00	PASS
		2382.62	-46.28	-10.00	PASS
		2383.5	-45.88	-10.00	PASS
		2384.5	-46.27	-10.00	PASS
		2385.5	-45.38	-10.00	PASS
		2386.5	-45.28	-10.00	PASS
		2387.5	-45.11	-10.00	PASS
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		2389.5	-46.84	-10.00	PASS
		2390.5	-46.85	-10.00	PASS
		2391.5	-46.06	-10.00	PASS
		2392.5	-46.76	-10.00	PASS
		2393.5	-46.56	-10.00	PASS
		2394.5	-45.89	-10.00	PASS
		2395.5	-46.34	-10.00	PASS
		2396.5	-46.56	-10.00	PASS
		2397.5	-46.15	-10.00	PASS
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		2399.5	-45.51	-10.00	PASS
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		2485	-14.80	-10.00	PASS
		2486	-18.32	-10.00	PASS
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		2489	-26.11	-10.00	PASS
		2490	-27.27	-10.00	PASS
		2491	-32.36	-10.00	PASS
		2492	-33.79	-10.00	PASS
		2493	-36.03	-10.00	PASS
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		2495	-38.92	-10.00	PASS
		2496	-39.78	-10.00	PASS
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		2500	-43.83	-10.00	PASS
		2500.88	-44.14	-10.00	PASS

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			2502.88	-45.35	-20.00	PASS
			2503.88	-45.77	-20.00	PASS
			2504.88	-45.20	-20.00	PASS
			2505.88	-45.02	-20.00	PASS
			2506.88	-45.41	-20.00	PASS
			2507.88	-45.62	-20.00	PASS
			2508.88	-45.99	-20.00	PASS
			2509.88	-45.33	-20.00	PASS
			2510.88	-45.49	-20.00	PASS
			2511.88	-45.41	-20.00	PASS
			2512.88	-44.68	-20.00	PASS
			2513.88	-45.58	-20.00	PASS
			2514.88	-45.23	-20.00	PASS
			2515.88	-45.65	-20.00	PASS
			2516.88	-45.55	-20.00	PASS
			2517.88	-45.36	-20.00	PASS
			2518.76	-45.35	-20.00	PASS
			2518.88	-44.29	-20.00	PASS
802.11n HT40	Ant1	2422	2327.684	-46.91	-20.00	PASS
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			2333.092	-46.20	-20.00	PASS
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			2335.092	-47.07	-20.00	PASS
			2336.092	-46.03	-20.00	PASS
			2337.092	-46.06	-20.00	PASS
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			2339.092	-47.31	-20.00	PASS
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			2341.092	-46.74	-20.00	PASS
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			2343.092	-44.81	-20.00	PASS
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			2347.092	-46.28	-20.00	PASS
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			2362.092	-45.05	-20.00	PASS
			2363.092	-46.23	-20.00	PASS

		2364.092	-45.09	-10.00	PASS
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		2365.5	-44.12	-10.00	PASS
		2366.5	-44.87	-10.00	PASS
		2367.5	-44.14	-10.00	PASS
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		2369.5	-43.96	-10.00	PASS
		2370.5	-43.87	-10.00	PASS
		2371.5	-42.82	-10.00	PASS
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		2373.5	-42.40	-10.00	PASS
		2374.5	-42.40	-10.00	PASS
		2375.5	-39.49	-10.00	PASS
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		2377.5	-39.10	-10.00	PASS
		2378.5	-39.21	-10.00	PASS
		2379.5	-38.65	-10.00	PASS
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		2399.5	-19.14	-10.00	PASS
		2484	-44.99	-10.00	PASS
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		2503	-45.11	-10.00	PASS

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		2352.096	-47.44	-20.00	PASS
		2353.096	-45.91	-20.00	PASS
		2354.096	-46.07	-20.00	PASS
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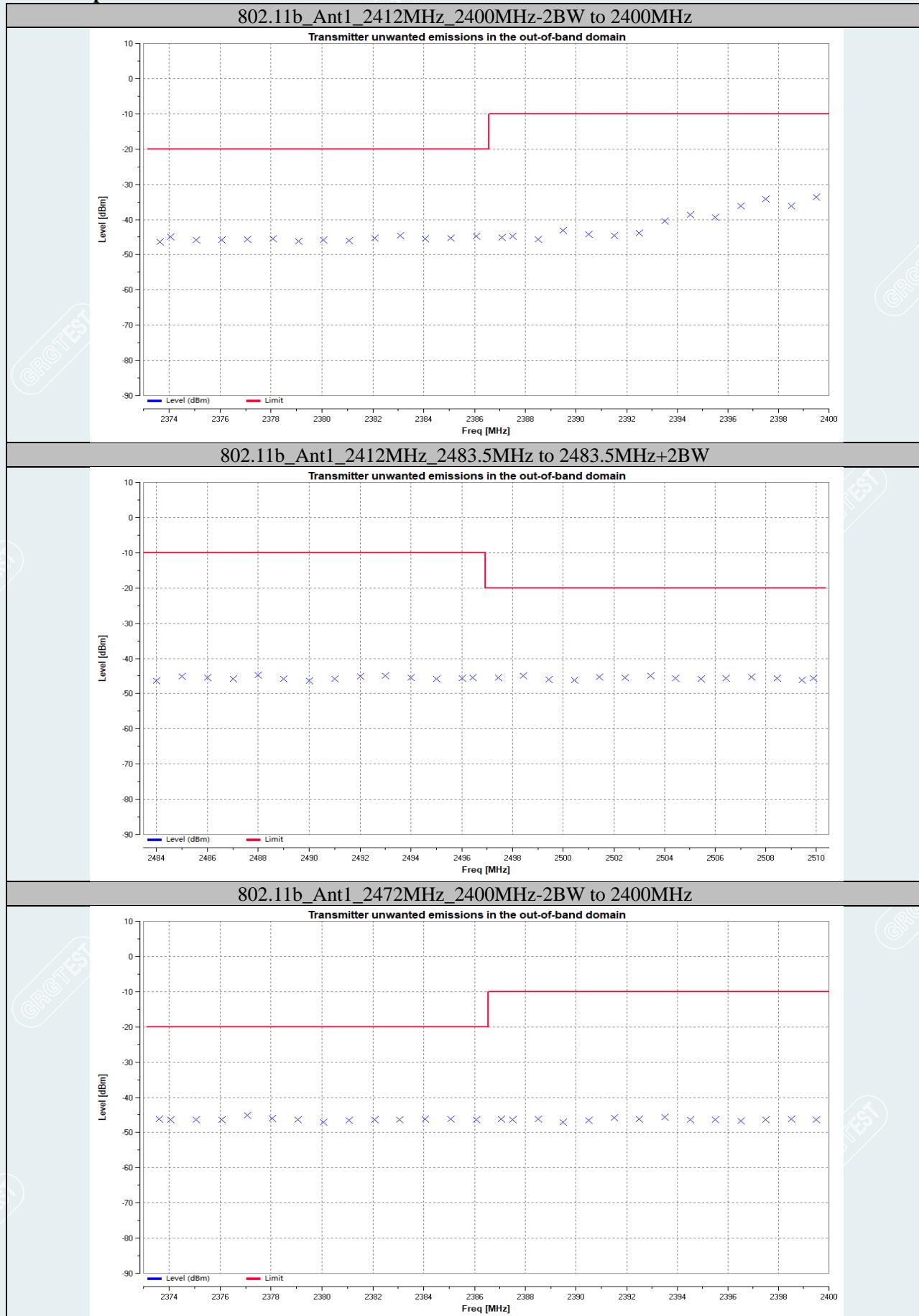
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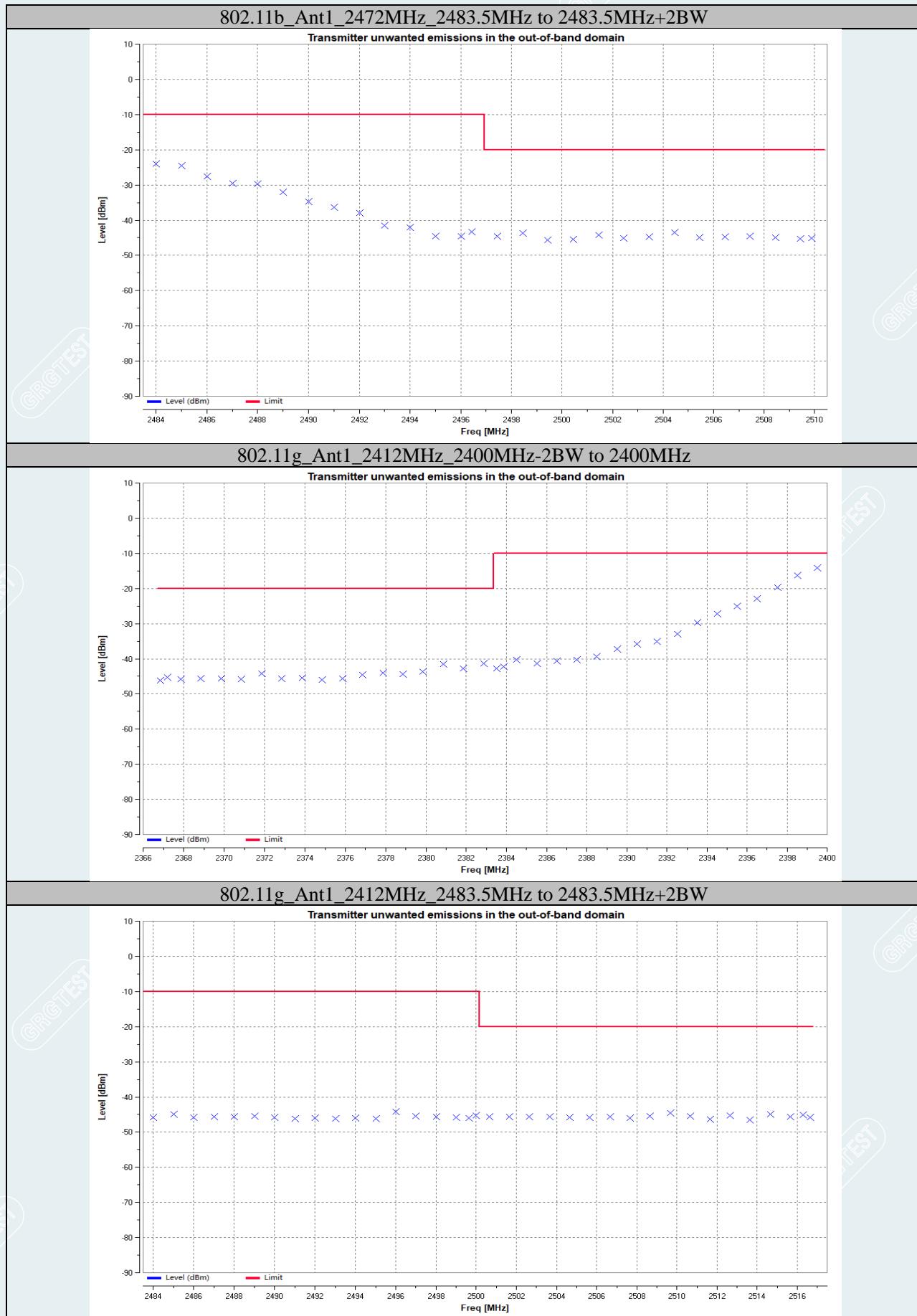
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		2530.916	-46.00	-20.00	PASS
		2531.916	-45.60	-20.00	PASS
		2532.916	-45.86	-20.00	PASS
		2533.916	-46.30	-20.00	PASS
		2534.916	-46.54	-20.00	PASS
		2535.916	-46.06	-20.00	PASS
		2536.916	-45.45	-20.00	PASS
		2537.916	-45.64	-20.00	PASS
		2538.916	-45.17	-20.00	PASS
		2539.916	-45.79	-20.00	PASS
		2540.916	-46.34	-20.00	PASS
		2541.916	-45.31	-20.00	PASS
		2542.916	-45.32	-20.00	PASS
		2543.916	-45.76	-20.00	PASS
		2544.916	-46.51	-20.00	PASS
		2545.916	-45.64	-20.00	PASS
		2546.916	-43.46	-20.00	PASS
		2547.916	-46.20	-20.00	PASS
		2548.916	-46.24	-20.00	PASS
		2549.916	-45.18	-20.00	PASS
		2550.916	-45.51	-20.00	PASS
		2551.916	-45.99	-20.00	PASS
		2552.916	-45.31	-20.00	PASS
		2553.916	-46.15	-20.00	PASS
		2554.916	-44.93	-20.00	PASS

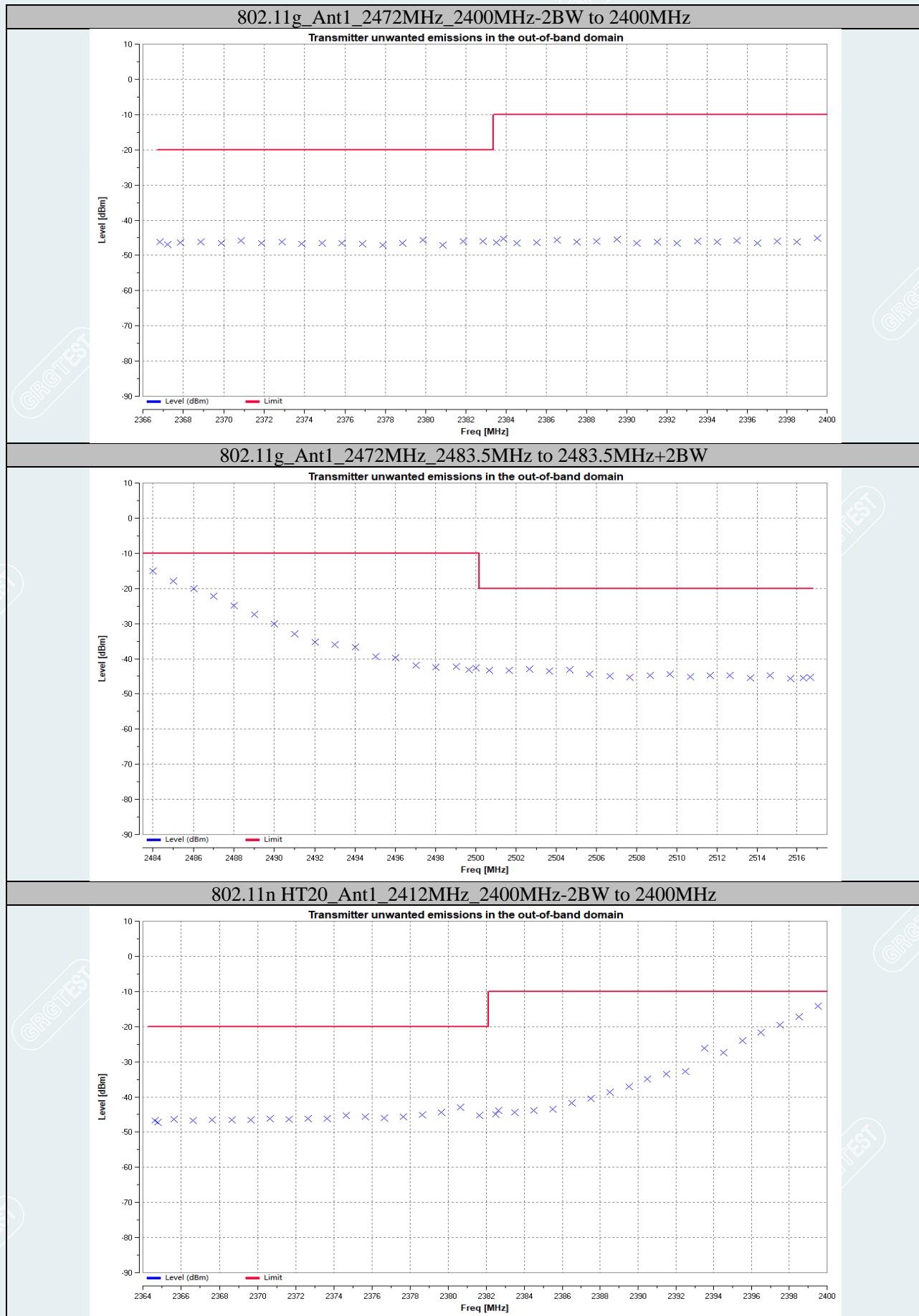
			2555.916	-45.74	-20.00	PASS
			2556.916	-44.99	-20.00	PASS
			2557.916	-45.23	-20.00	PASS
			2558.832	-45.18	-20.00	PASS
			2558.916	-45.29	-20.00	PASS
			2324.583	-47.53	-20.00	PASS
			2324.666	-46.49	-20.00	PASS
			2325.583	-47.17	-20.00	PASS
			2326.583	-47.12	-20.00	PASS
			2327.583	-47.15	-20.00	PASS
			2328.583	-46.13	-20.00	PASS
			2329.583	-47.06	-20.00	PASS
			2330.583	-47.17	-20.00	PASS
			2331.583	-47.06	-20.00	PASS
			2332.583	-45.71	-20.00	PASS
			2333.583	-46.65	-20.00	PASS
			2334.583	-47.07	-20.00	PASS
			2335.583	-47.11	-20.00	PASS
			2336.583	-46.42	-20.00	PASS
			2337.583	-46.94	-20.00	PASS
			2338.583	-47.58	-20.00	PASS
			2339.583	-46.63	-20.00	PASS
			2340.583	-46.58	-20.00	PASS
			2341.583	-46.61	-20.00	PASS
			2342.583	-46.99	-20.00	PASS
			2343.583	-47.20	-20.00	PASS
			2344.583	-46.83	-20.00	PASS
			2345.583	-47.72	-20.00	PASS
			2346.583	-45.79	-20.00	PASS
			2347.583	-45.95	-20.00	PASS
			2348.583	-45.89	-20.00	PASS
			2349.583	-47.11	-20.00	PASS
			2350.583	-46.90	-20.00	PASS
			2351.583	-46.70	-20.00	PASS
			2352.583	-47.12	-20.00	PASS
			2353.583	-47.07	-20.00	PASS
			2354.583	-46.88	-20.00	PASS
			2355.583	-46.72	-20.00	PASS
			2356.583	-47.06	-20.00	PASS
			2357.583	-45.75	-20.00	PASS
			2358.583	-47.02	-20.00	PASS
			2359.583	-47.43	-20.00	PASS
			2360.583	-46.20	-20.00	PASS
			2361.583	-46.35	-20.00	PASS
			2362.5	-46.69	-10.00	PASS
			2362.583	-46.89	-10.00	PASS
			2363.5	-46.47	-10.00	PASS
			2364.5	-46.74	-10.00	PASS
			2365.5	-46.69	-10.00	PASS
			2366.5	-46.02	-10.00	PASS
			2367.5	-46.46	-10.00	PASS
			2368.5	-47.06	-10.00	PASS
			2369.5	-46.74	-10.00	PASS
			2370.5	-47.04	-10.00	PASS
			2371.5	-46.41	-10.00	PASS
			2372.5	-46.15	-10.00	PASS
			2373.5	-46.14	-10.00	PASS

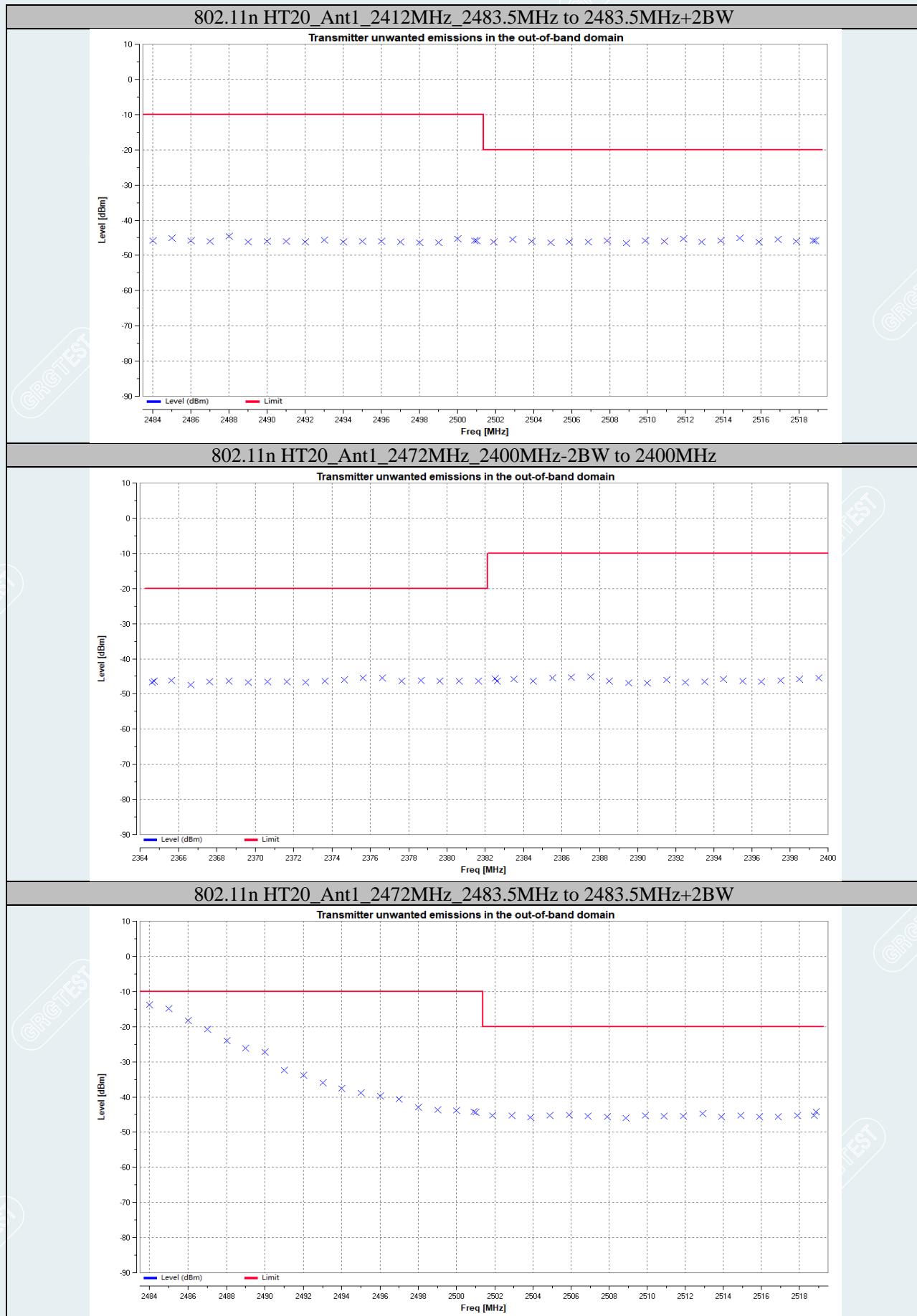
		2374.5	-46.47	-10.00	PASS
		2375.5	-46.24	-10.00	PASS
		2376.5	-46.41	-10.00	PASS
		2377.5	-46.42	-10.00	PASS
		2378.5	-46.23	-10.00	PASS
		2379.5	-46.36	-10.00	PASS
		2380.5	-46.67	-10.00	PASS
		2381.5	-46.79	-10.00	PASS
		2382.5	-45.96	-10.00	PASS
		2383.5	-45.53	-10.00	PASS
		2384.5	-46.71	-10.00	PASS
		2385.5	-45.81	-10.00	PASS
		2386.5	-46.12	-10.00	PASS
		2387.5	-46.50	-10.00	PASS
		2388.5	-47.34	-10.00	PASS
		2389.5	-46.69	-10.00	PASS
		2390.5	-46.21	-10.00	PASS
		2391.5	-46.34	-10.00	PASS
		2392.5	-46.60	-10.00	PASS
		2393.5	-46.85	-10.00	PASS
		2394.5	-46.25	-10.00	PASS
		2395.5	-47.16	-10.00	PASS
		2396.5	-46.19	-10.00	PASS
		2397.5	-46.21	-10.00	PASS
		2398.5	-45.83	-10.00	PASS
		2399.5	-45.85	-10.00	PASS
		2484	-18.86	-10.00	PASS
		2485	-22.17	-10.00	PASS
		2486	-23.24	-10.00	PASS
		2487	-25.39	-10.00	PASS
		2488	-28.20	-10.00	PASS
		2489	-30.52	-10.00	PASS
		2490	-33.57	-10.00	PASS
		2491	-35.78	-10.00	PASS
		2492	-36.90	-10.00	PASS
		2493	-39.77	-10.00	PASS
		2494	-38.67	-10.00	PASS
		2495	-42.61	-10.00	PASS
		2496	-41.58	-10.00	PASS
		2497	-42.99	-10.00	PASS
		2498	-41.69	-10.00	PASS
		2499	-43.89	-10.00	PASS
		2500	-43.74	-10.00	PASS
		2501	-44.06	-10.00	PASS
		2502	-43.64	-10.00	PASS
		2503	-45.18	-10.00	PASS
		2504	-44.43	-10.00	PASS
		2505	-44.91	-10.00	PASS
		2506	-45.25	-10.00	PASS
		2507	-45.41	-10.00	PASS
		2508	-44.34	-10.00	PASS
		2509	-44.71	-10.00	PASS
		2510	-44.72	-10.00	PASS
		2511	-45.49	-10.00	PASS
		2512	-45.26	-10.00	PASS
		2513	-44.89	-10.00	PASS
		2514	-45.39	-10.00	PASS

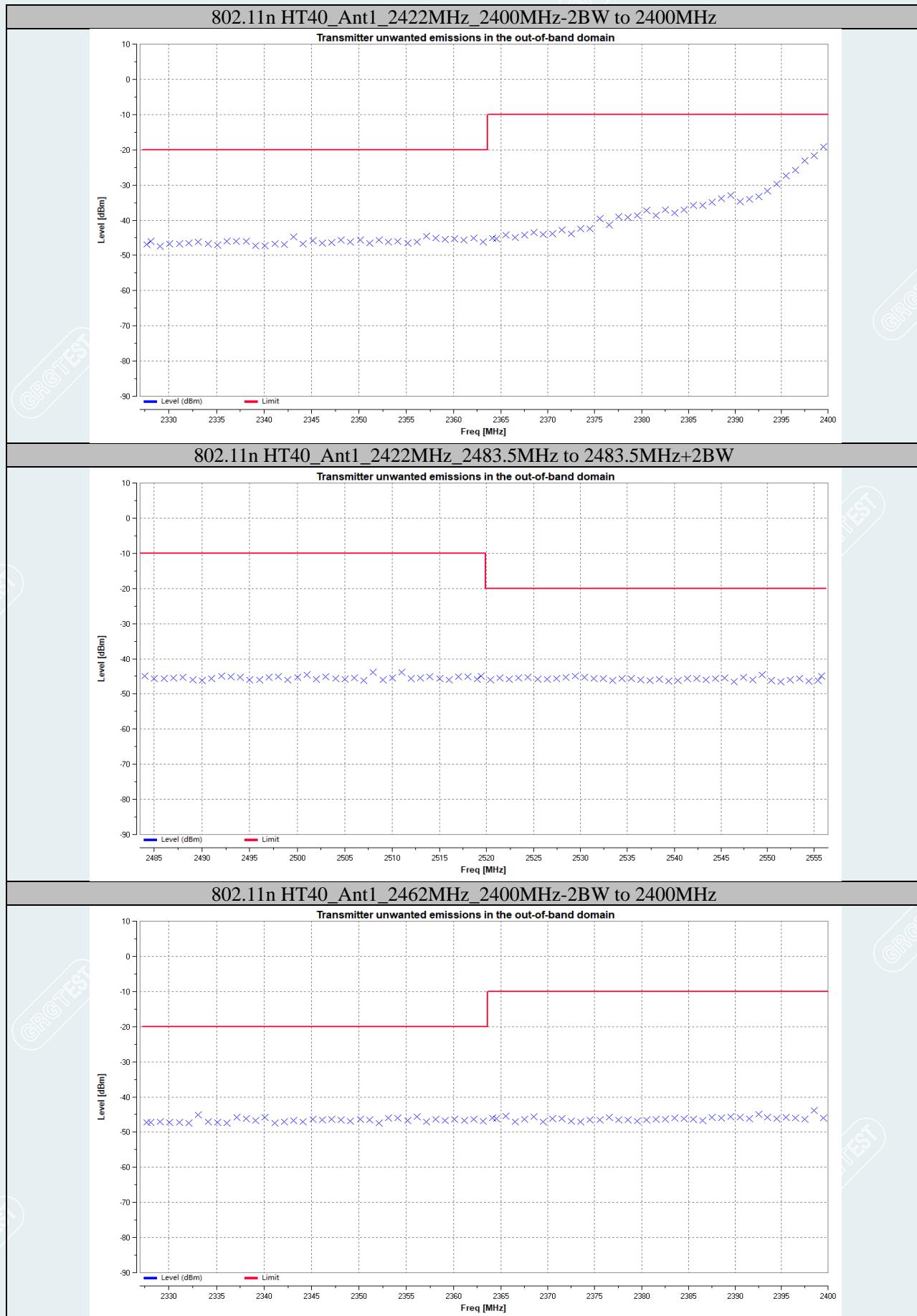
		2515	-45.71	-10.00	PASS
		2516	-46.44	-10.00	PASS
		2517	-46.18	-10.00	PASS
		2518	-45.81	-10.00	PASS
		2519	-45.72	-10.00	PASS
		2520	-44.61	-10.00	PASS
		2520.917	-45.49	-10.00	PASS
		2521	-45.98	-10.00	PASS
		2521.917	-45.91	-20.00	PASS
		2522.917	-45.50	-20.00	PASS
		2523.917	-46.05	-20.00	PASS
		2524.917	-45.47	-20.00	PASS
		2525.917	-45.49	-20.00	PASS
		2526.917	-45.95	-20.00	PASS
		2527.917	-44.01	-20.00	PASS
		2528.917	-45.42	-20.00	PASS
		2529.917	-45.55	-20.00	PASS
		2530.917	-45.86	-20.00	PASS
		2531.917	-45.98	-20.00	PASS
		2532.917	-45.87	-20.00	PASS
		2533.917	-45.04	-20.00	PASS
		2534.917	-45.73	-20.00	PASS
		2535.917	-45.48	-20.00	PASS
		2536.917	-46.29	-20.00	PASS
		2537.917	-45.37	-20.00	PASS
		2538.917	-46.55	-20.00	PASS
		2539.917	-45.60	-20.00	PASS
		2540.917	-44.92	-20.00	PASS
		2541.917	-46.61	-20.00	PASS
		2542.917	-45.88	-20.00	PASS
		2543.917	-45.90	-20.00	PASS
		2544.917	-45.71	-20.00	PASS
		2545.917	-46.06	-20.00	PASS
		2546.917	-45.72	-20.00	PASS
		2547.917	-45.71	-20.00	PASS
		2548.917	-45.74	-20.00	PASS
		2549.917	-45.49	-20.00	PASS
		2550.917	-46.20	-20.00	PASS
		2551.917	-45.05	-20.00	PASS
		2552.917	-45.48	-20.00	PASS
		2553.917	-45.66	-20.00	PASS
		2554.917	-45.64	-20.00	PASS
		2555.917	-46.25	-20.00	PASS
		2556.917	-45.87	-20.00	PASS
		2557.917	-46.17	-20.00	PASS
		2558.834	-45.07	-20.00	PASS
		2558.917	-45.18	-20.00	PASS

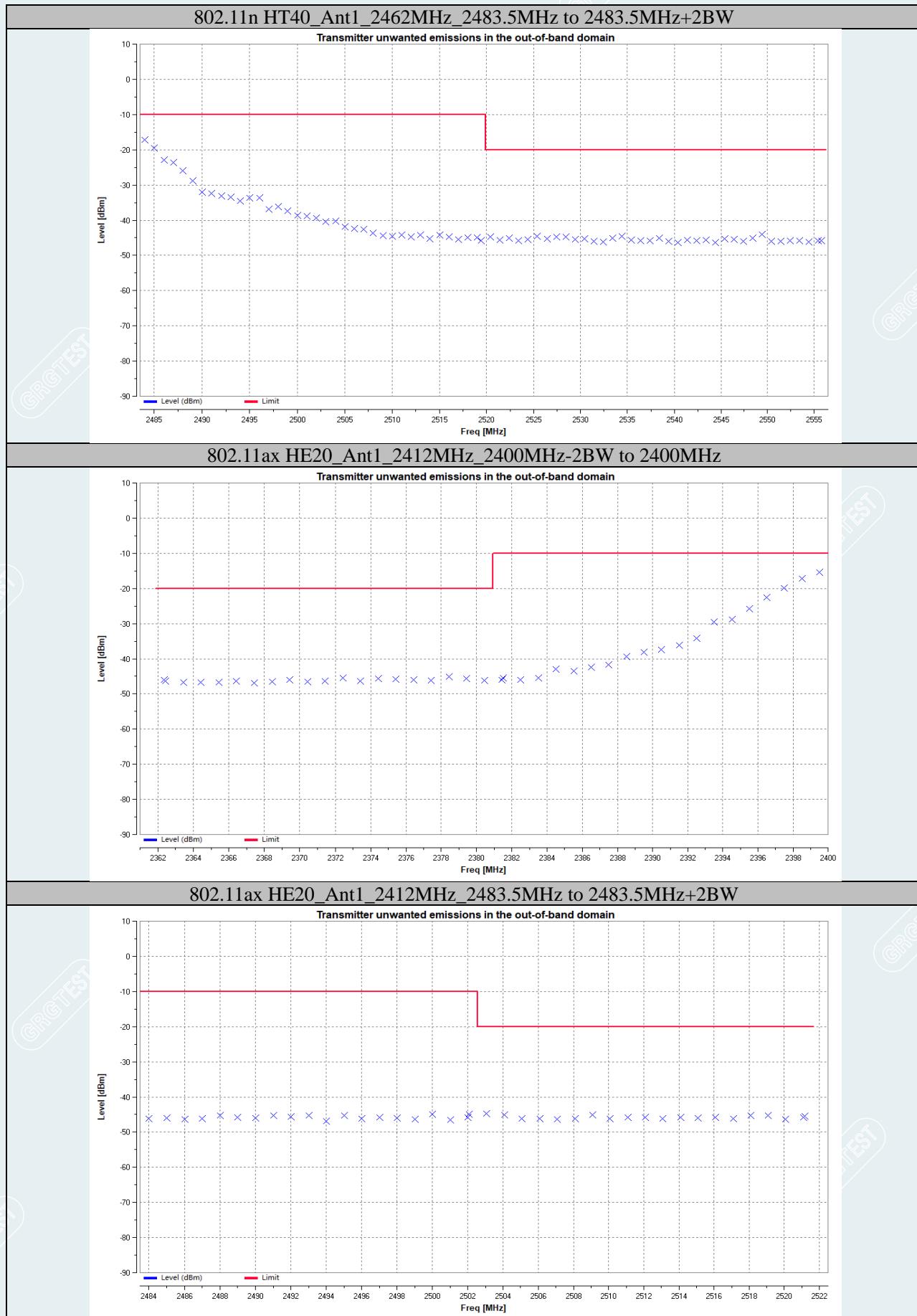
Test Graphs

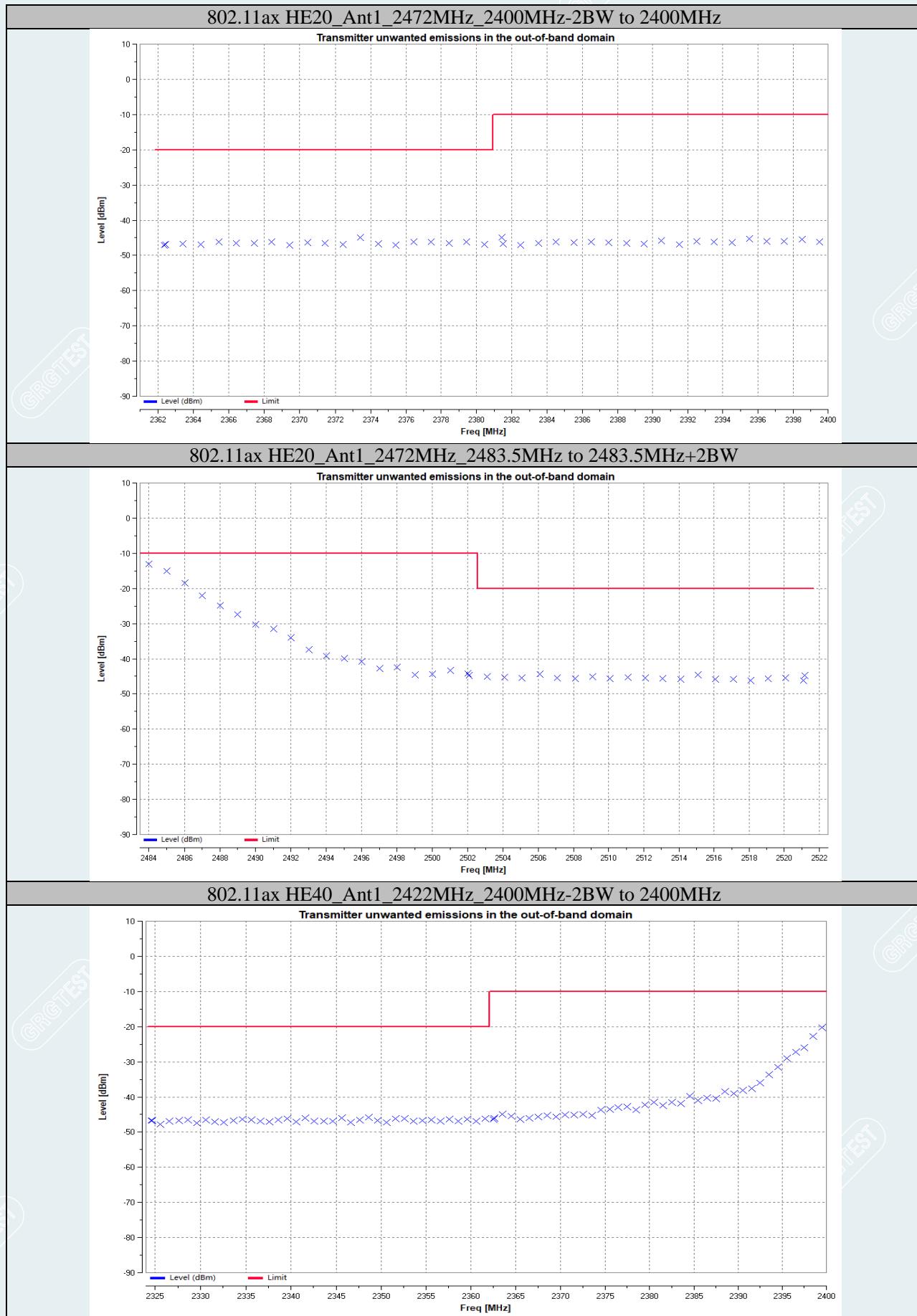


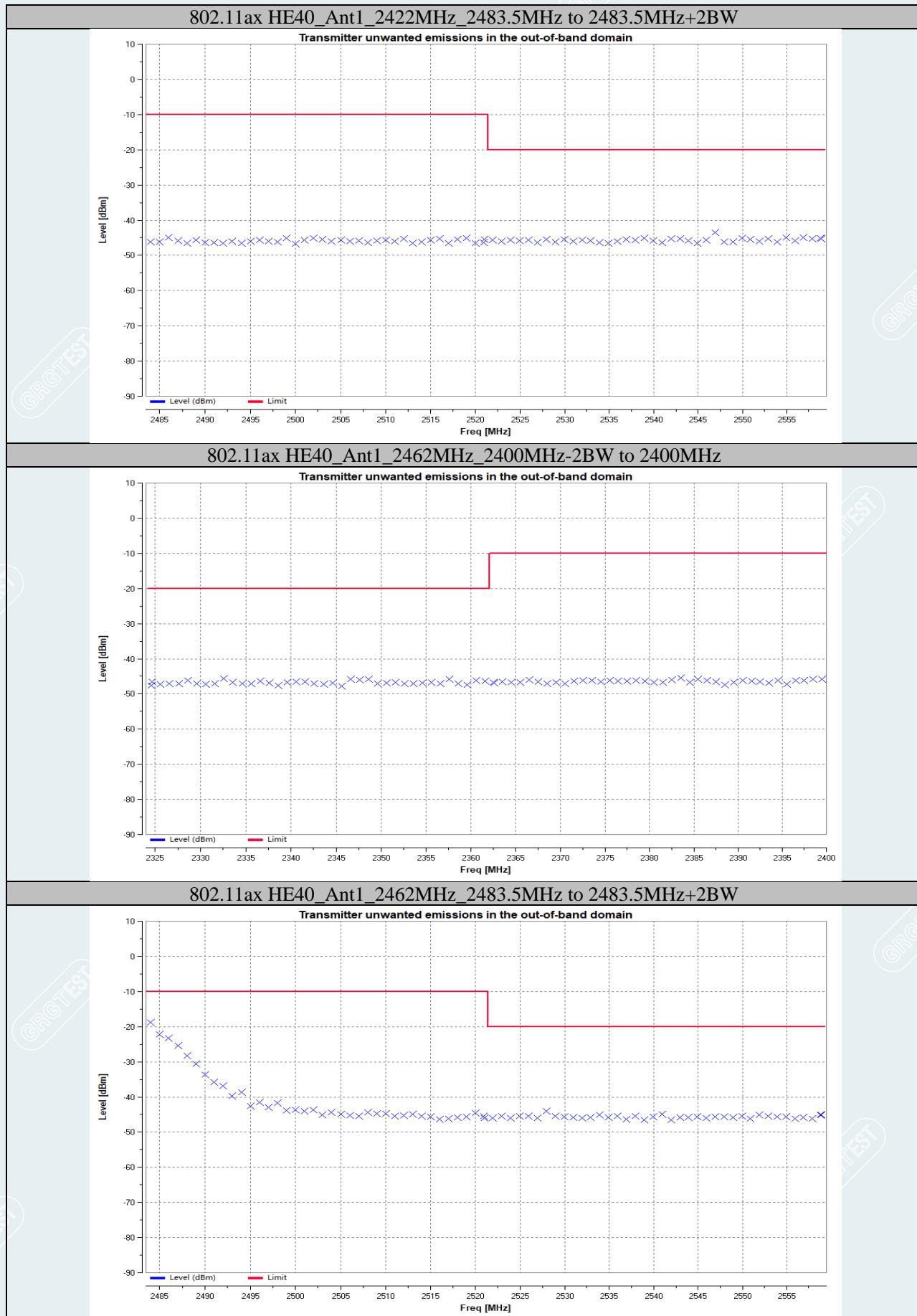












5.6 TRANSMITTER UNWANTED EMISSIONS IN THE SPURIOUS DOMAIN

Test Requirement: EN300 328 V2.2.2/ 4.3.2.9

Test Method: EN300 328 V2.2.2/5.4.9.2.2

5.6.1 LIMIT

This requirement applies to all types of FHSS equipment and all types of non-FHSS equipment.

The transmitter unwanted emissions in the spurious domain shall not exceed the values given in table 2. In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or emissions radiated by integral antenna equipment (without antenna connectors), these limits are e.r.p. for emissions up to 1 GHz and as e.i.r.p. for emissions above 1 GHz.

Note: This test uses conducted emissions measurement and Radiated emissions measurement.

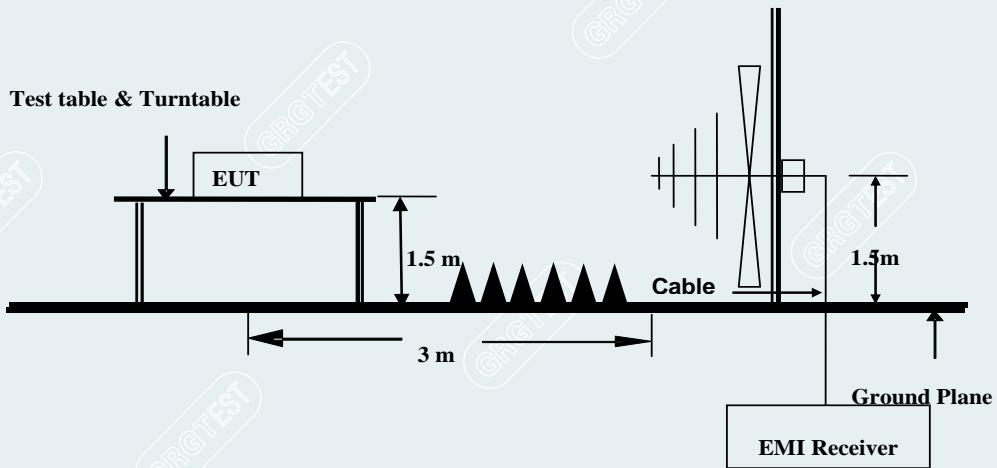
Table 2: Transmitter limits for spurious emissions

Frequency range	Maximum power	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 694 MHz	-54 dBm	100 kHz
694 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz

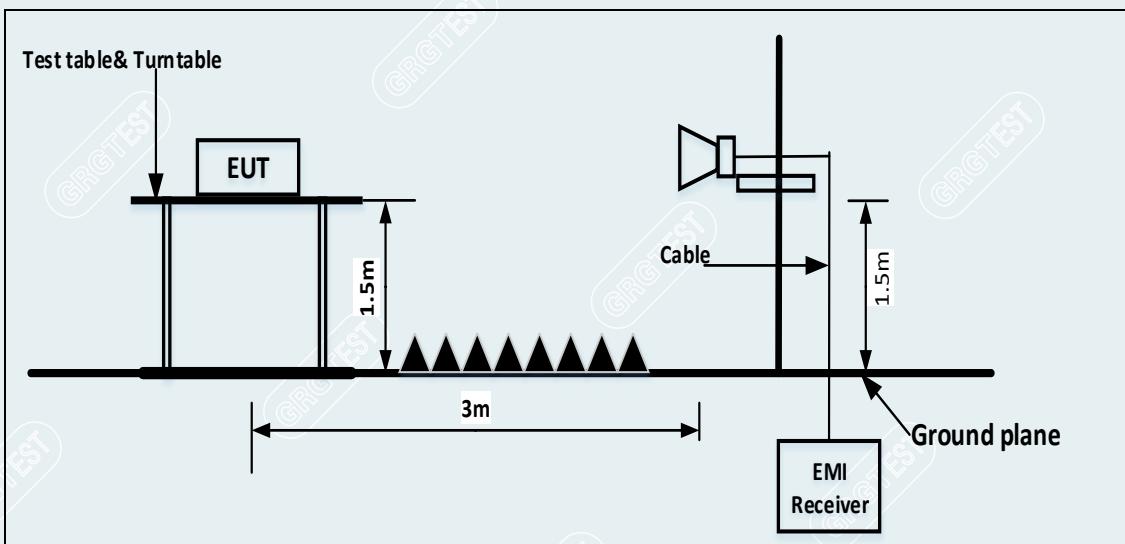
----- The following blanks -----

5.6.2 TEST CONFIGURATION

30MHz~1000MHz



1000MHz~12750MHz



5.6.3 TEST PROCEDURES

- Test condition: Normal test conditions.
- Test channel: 2412MHz, 2472MHz for 802.11b/g/n HT20/ax HE20
2422MHz, 2462MHz for 802.11n HT40/ax HE40
- Test procedure: Test procedure is according to Clause 5.4.9.2.1 of EN 300 328 V2.2.2

5.6.4 DATA SAMPLE

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
XXX	-49.71	-57.90	-30.00	27.90	-8.19	RMS	Horizontal

- Frequency (MHz) = Emission frequency in MHz
- Reading (dBm) = Uncorrected Analyzer / Receiver reading
- Level (dBm) = Reading (dBm) + Factor (dB)
- Limit (dBm) = Limit stated in standard
- Margin (dB) = Limit (dBm) – Level (dBm)
- RMS = Root Mean Square

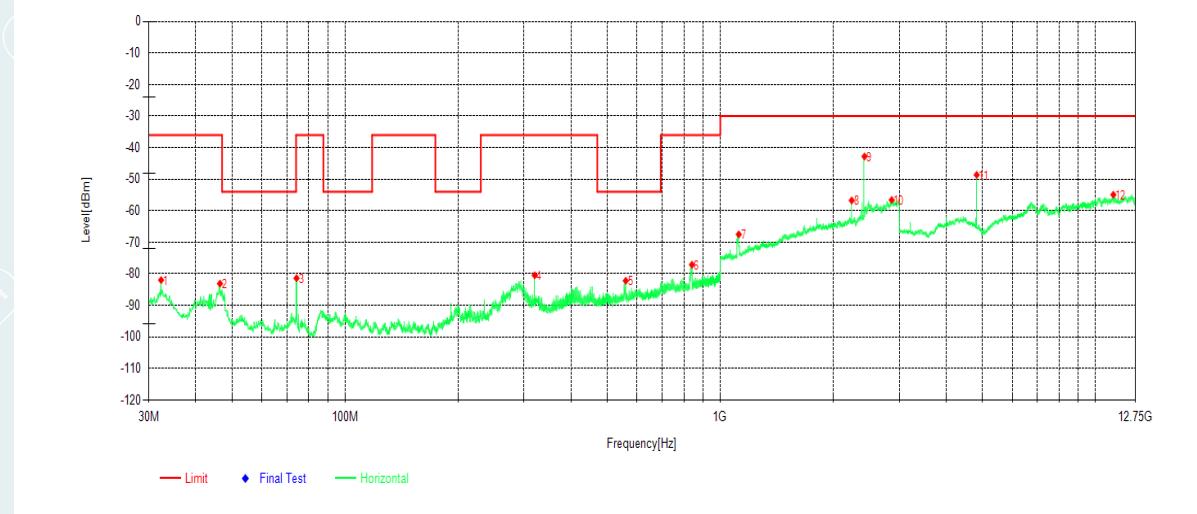
----- The following blanks -----

5.6.5 TEST RESULTS

Pre-scanned in three placement surfaces, Erect, Lateral standing, Handstand. The worst cases mode (Handstand) were recorded in this report.

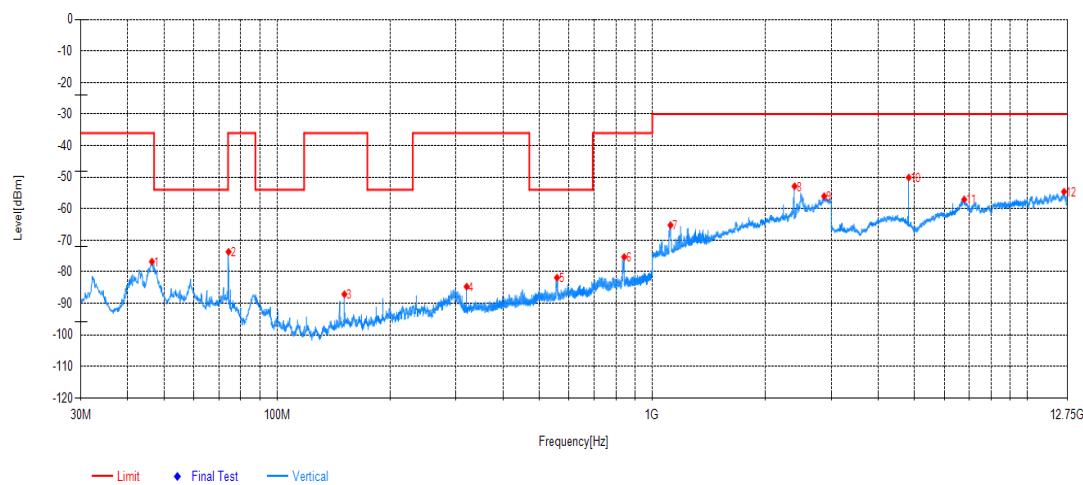
Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11b 2412MHz	Voltage:	AC 230V/50Hz
Environment:	19.2°C/69%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-27	Remark:	/

Test Graph



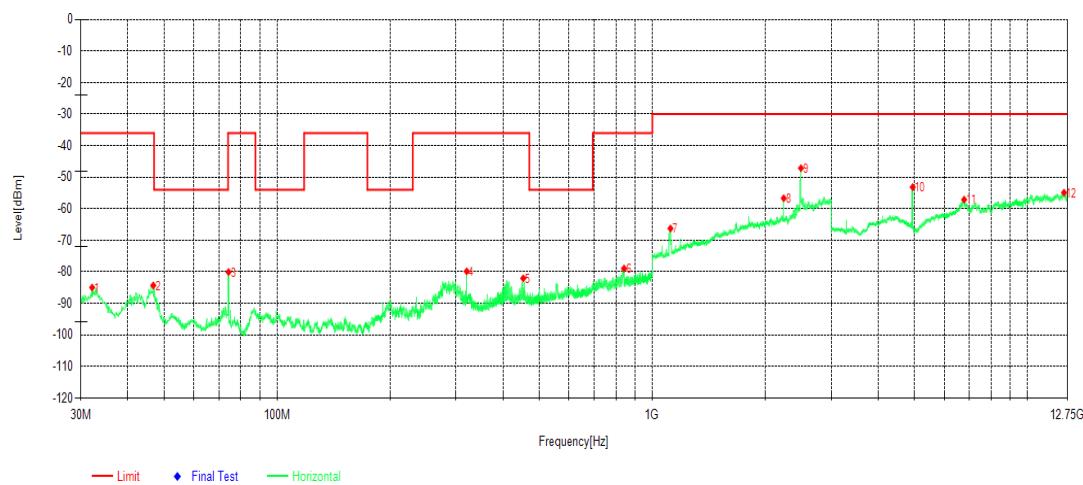
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	32.328	-67.26	-81.99	-36.00	45.99	-14.73	RMS	Horizontal
2	46.393	-67.29	-83.10	-36.00	47.10	-15.81	RMS	Horizontal
3	74.232	-59.30	-81.39	-36.00	45.39	-22.09	RMS	Horizontal
4	320.03	-65.78	-80.49	-36.00	44.49	-14.71	RMS	Horizontal
5	559.717	-73.03	-82.21	-54.00	28.21	-9.18	RMS	Horizontal
6	840.338	-72.42	-77.12	-36.00	41.12	-4.70	RMS	Horizontal
7	1119.4	-65.47	-67.52	-30.00	37.52	-2.05	RMS	Horizontal
8	2240	-63.80	-56.75	-30.00	26.75	7.05	RMS	Horizontal
9	2422.2	-53.23	-42.81	-30.00	12.81	10.42	RMS	Horizontal
10	2863.2	-69.76	-56.59	-30.00	26.59	13.17	RMS	Horizontal
11	4823.25	-46.92	-48.63	-30.00	18.63	-1.71	RMS	Horizontal
12	11153.925	-67.72	-54.92	-30.00	24.92	12.80	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11b 2412MHz	Voltage:	AC 230V/50Hz
Environment:	19.2 °C/69%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-27	Remark:	/

Test Graph**Suspected Data List**

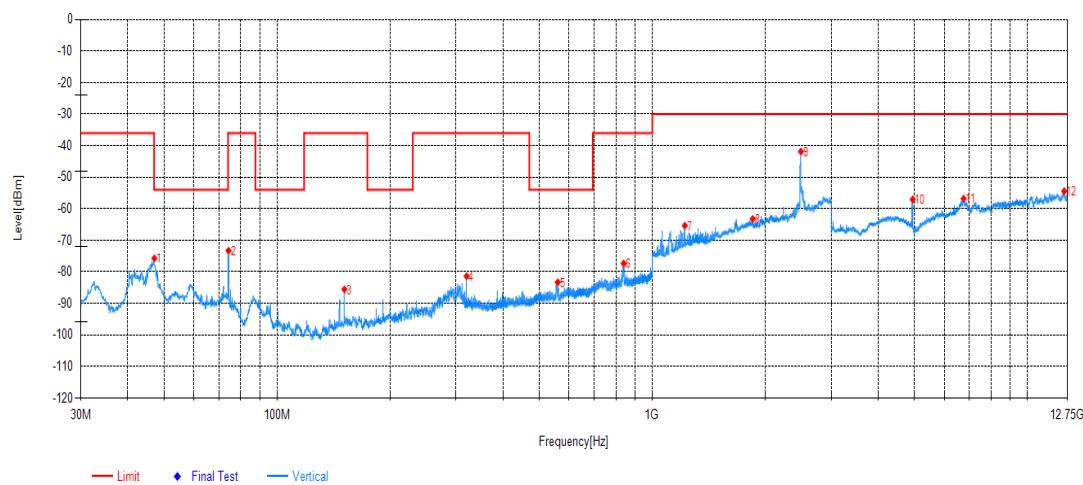
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.393	-63.15	-76.78	-36.00	40.78	-13.63	RMS	Vertical
2	74.232	-54.16	-73.69	-36.00	37.69	-19.53	RMS	Vertical
3	151.153	-68.50	-87.12	-36.00	51.12	-18.62	RMS	Vertical
4	320.03	-70.25	-84.71	-36.00	48.71	-14.46	RMS	Vertical
5	557.001	-72.28	-81.87	-54.00	27.87	-9.59	RMS	Vertical
6	841.211	-70.89	-75.31	-36.00	39.31	-4.42	RMS	Vertical
7	1118.4	-63.52	-65.23	-30.00	35.23	-1.71	RMS	Vertical
8	2394.2	-62.64	-52.88	-30.00	22.88	9.76	RMS	Vertical
9	2870.4	-69.83	-56.04	-30.00	26.04	13.79	RMS	Vertical
10	4823.25	-48.63	-50.14	-30.00	20.14	-1.51	RMS	Vertical
11	6782.025	-62.78	-57.08	-30.00	27.08	5.70	RMS	Vertical
12	12515.025	-69.18	-54.60	-30.00	24.60	14.58	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11b 2472MHz	Voltage:	AC 230V/50Hz
Environment:	19.2 °C/69%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-27	Remark:	/

Test Graph

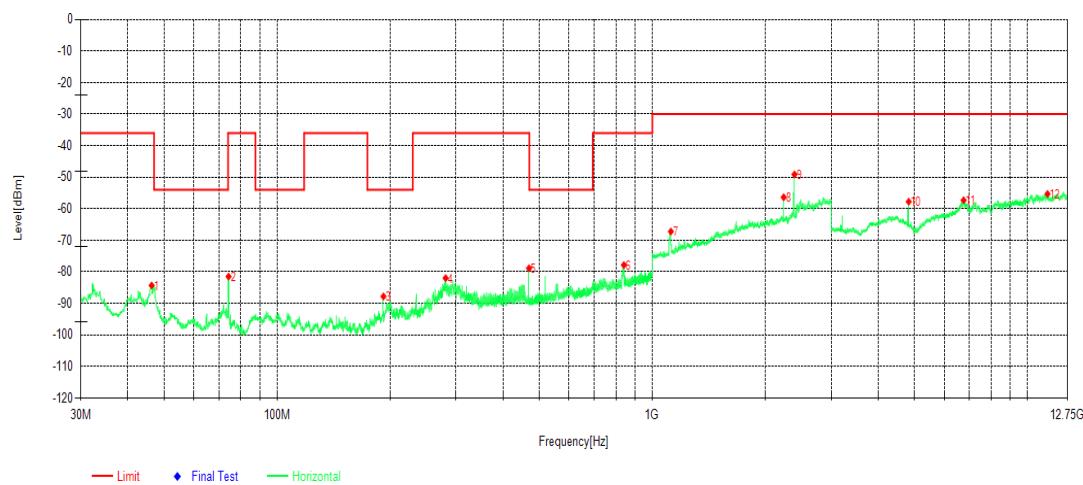
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	32.134	-70.24	-85.00	-36.00	49.00	-14.76	RMS	Horizontal
2	46.781	-68.41	-84.33	-36.00	48.33	-15.92	RMS	Horizontal
3	74.232	-57.96	-80.05	-36.00	44.05	-22.09	RMS	Horizontal
4	320.03	-65.15	-79.86	-36.00	43.86	-14.71	RMS	Horizontal
5	453.017	-70.90	-82.05	-36.00	46.05	-11.15	RMS	Horizontal
6	840.726	-74.31	-78.98	-36.00	42.98	-4.67	RMS	Horizontal
7	1117.6	-64.08	-66.26	-30.00	36.26	-2.18	RMS	Horizontal
8	2240	-63.74	-56.69	-30.00	26.69	7.05	RMS	Horizontal
9	2490	-59.51	-47.15	-30.00	17.15	12.36	RMS	Horizontal
10	4944.15	-52.24	-53.15	-30.00	23.15	-0.91	RMS	Horizontal
11	6775.2	-62.55	-57.11	-30.00	27.11	5.44	RMS	Horizontal
12	12509.175	-69.42	-54.91	-30.00	24.91	14.51	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11b 2472MHz	Voltage:	AC 230V/50Hz
Environment:	19.2 °C/69%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-27	Remark:	/

Test Graph**Suspected Data List**

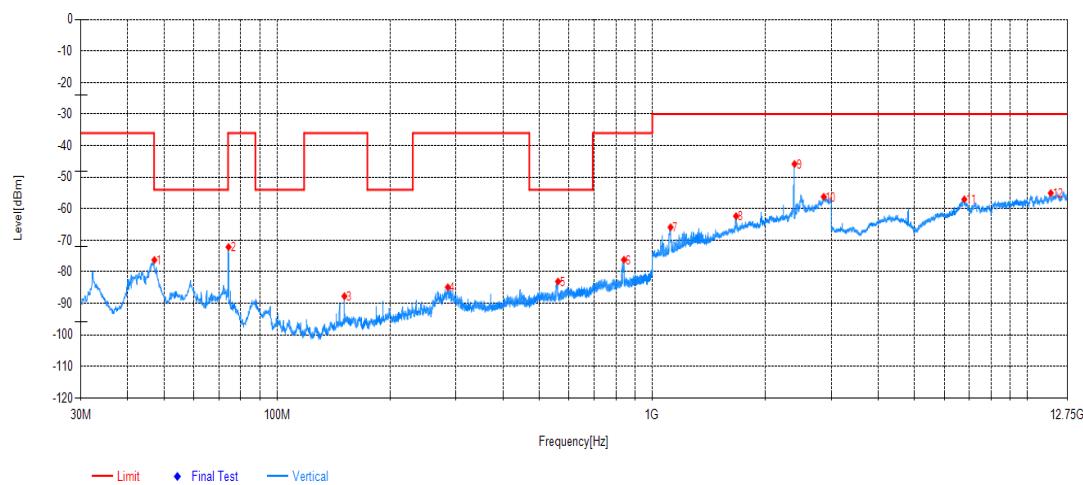
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	47.072	-62.15	-75.74	-54.00	21.74	-13.59	RMS	Vertical
2	74.232	-53.79	-73.32	-36.00	37.32	-19.53	RMS	Vertical
3	151.153	-66.94	-85.56	-36.00	49.56	-18.62	RMS	Vertical
4	320.03	-66.90	-81.36	-36.00	45.36	-14.46	RMS	Vertical
5	559.523	-73.78	-83.33	-54.00	29.33	-9.55	RMS	Vertical
6	838.592	-72.82	-77.36	-36.00	41.36	-4.54	RMS	Vertical
7	1220.4	-65.80	-65.37	-30.00	35.37	0.43	RMS	Vertical
8	1851	-70.28	-63.24	-30.00	33.24	7.04	RMS	Vertical
9	2489.8	-54.37	-41.86	-30.00	11.86	12.51	RMS	Vertical
10	4944.15	-56.26	-57.03	-30.00	27.03	-0.77	RMS	Vertical
11	6756.675	-62.93	-56.78	-30.00	26.78	6.15	RMS	Vertical
12	12528.675	-68.70	-54.41	-30.00	24.41	14.29	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11g 2412MHz	Voltage:	AC 230V/50Hz
Environment:	19.2 °C/69%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-27	Remark:	/

Test Graph**Suspected Data List**

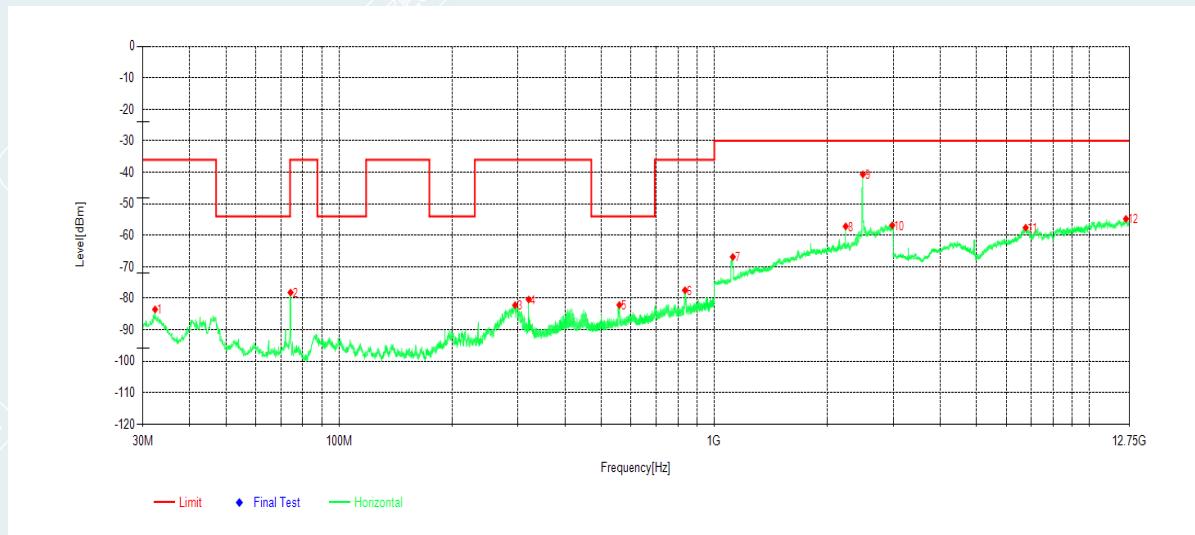
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.296	-68.54	-84.32	-36.00	48.32	-15.78	RMS	Horizontal
2	74.232	-59.43	-81.52	-36.00	45.52	-22.09	RMS	Horizontal
3	191.99	-71.04	-87.81	-54.00	33.81	-16.77	RMS	Horizontal
4	281.327	-67.70	-81.99	-36.00	45.99	-14.29	RMS	Horizontal
5	469.216	-67.39	-78.89	-36.00	42.89	-11.50	RMS	Horizontal
6	839.562	-73.10	-77.84	-36.00	41.84	-4.74	RMS	Horizontal
7	1120.6	-65.23	-67.22	-30.00	37.22	-1.99	RMS	Horizontal
8	2240	-63.42	-56.37	-30.00	26.37	7.05	RMS	Horizontal
9	2393.4	-58.70	-49.13	-30.00	19.13	9.57	RMS	Horizontal
10	4823.25	-56.06	-57.77	-30.00	27.77	-1.71	RMS	Horizontal
11	6755.7	-63.16	-57.32	-30.00	27.32	5.84	RMS	Horizontal
12	11306.025	-67.71	-55.32	-30.00	25.32	12.39	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11g 2412MHz	Voltage:	AC 230V/50Hz
Environment:	19.2 °C/69%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-27	Remark:	/

Test Graph**Suspected Data List**

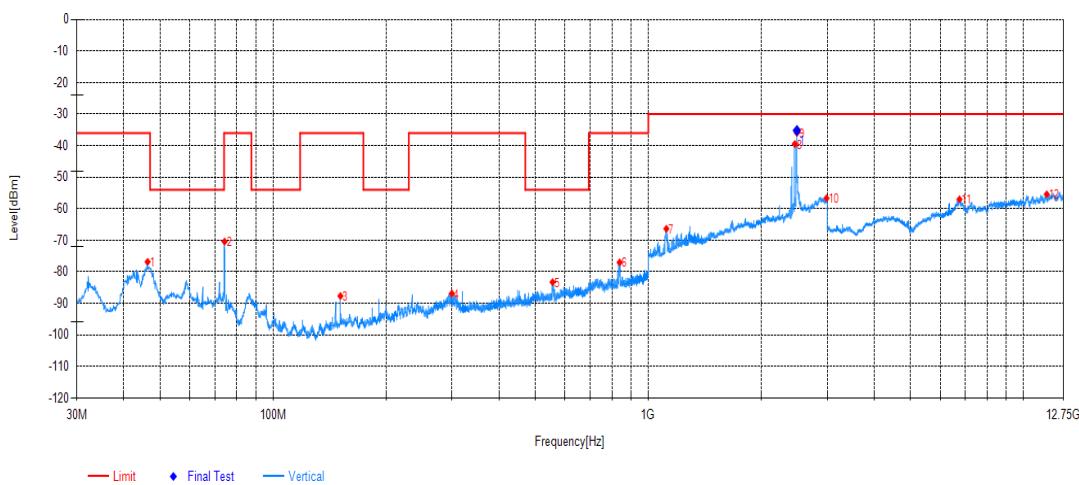
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	47.072	-62.67	-76.26	-54.00	22.26	-13.59	RMS	Vertical
2	74.232	-52.61	-72.14	-36.00	36.14	-19.53	RMS	Vertical
3	151.153	-69.12	-87.74	-36.00	51.74	-18.62	RMS	Vertical
4	285.11	-70.30	-84.90	-36.00	48.90	-14.60	RMS	Vertical
5	560.687	-73.59	-83.08	-54.00	29.08	-9.49	RMS	Vertical
6	840.047	-71.69	-76.17	-36.00	40.17	-4.48	RMS	Vertical
7	1118.4	-64.19	-65.90	-30.00	35.90	-1.71	RMS	Vertical
8	1672.4	-67.22	-62.35	-30.00	32.35	4.87	RMS	Vertical
9	2393.6	-55.56	-45.82	-30.00	15.82	9.74	RMS	Vertical
10	2863.8	-69.77	-56.19	-30.00	26.19	13.58	RMS	Vertical
11	6783.975	-62.70	-57.04	-30.00	27.04	5.66	RMS	Vertical
12	11532.225	-67.98	-55.06	-30.00	25.06	12.92	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11g 2472MHz	Voltage:	AC 230V/50Hz
Environment:	19.2 °C/69%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-27	Remark:	/

Test Graph

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	32.328	-68.81	-83.54	-36.00	47.54	-14.73	RMS	Horizontal
2	74.232	-56.08	-78.17	-36.00	42.17	-22.09	RMS	Horizontal
3	294.616	-68.30	-82.17	-36.00	46.17	-13.87	RMS	Horizontal
4	320.03	-65.70	-80.41	-36.00	44.41	-14.71	RMS	Horizontal
5	558.165	-72.92	-82.14	-54.00	28.14	-9.22	RMS	Horizontal
6	835.197	-72.51	-77.46	-36.00	41.46	-4.95	RMS	Horizontal
7	1120	-64.87	-66.88	-30.00	36.88	-2.01	RMS	Horizontal
8	2240	-64.20	-57.15	-30.00	27.15	7.05	RMS	Horizontal
9	2488.6	-52.97	-40.65	-30.00	10.65	12.32	RMS	Horizontal
10	2979.8	-70.52	-56.82	-30.00	26.82	13.70	RMS	Horizontal
11	6759.6	-63.35	-57.59	-30.00	27.59	5.76	RMS	Horizontal
12	12499.425	-69.44	-54.78	-30.00	24.78	14.66	RMS	Horizontal

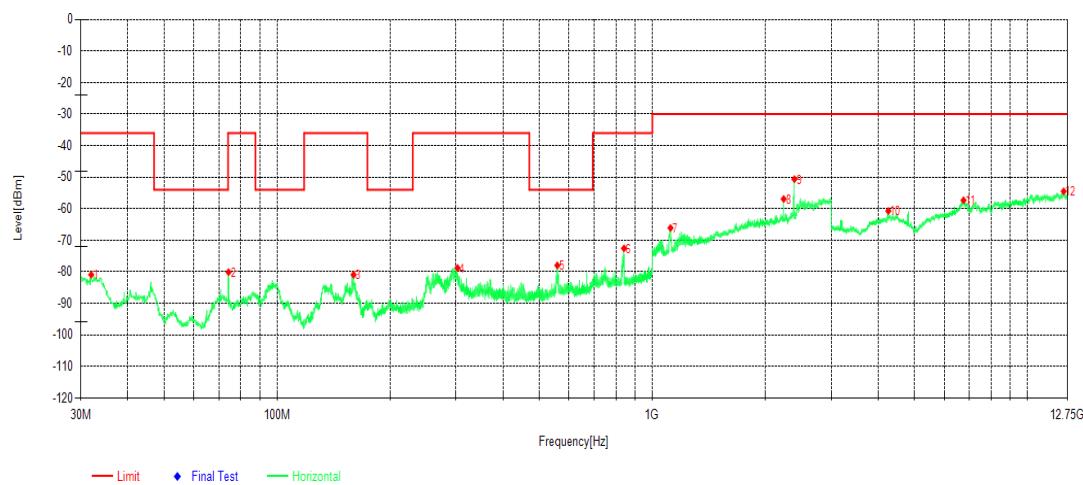
Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11g 2472MHz	Voltage:	AC 230V/50Hz
Environment:	19.2 °C/69%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-27	Remark:	/

Test Graph

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.296	-63.18	-76.82	-36.00	40.82	-13.64	RMS	Vertical
2	74.232	-50.88	-70.41	-36.00	34.41	-19.53	RMS	Vertical
3	151.153	-69.05	-87.67	-36.00	51.67	-18.62	RMS	Vertical
4	299.66	-72.95	-86.87	-36.00	50.87	-13.92	RMS	Vertical
5	555.74	-73.69	-83.29	-54.00	29.29	-9.60	RMS	Vertical
6	838.98	-72.51	-77.03	-36.00	41.03	-4.52	RMS	Vertical
7	1116.6	-64.54	-66.36	-30.00	36.36	-1.82	RMS	Vertical
8	2459	-51.11	-39.48	-30.00	9.48	11.63	RMS	Vertical
9	2488.8	-48.41	-35.93	-30.00	5.93	12.48	RMS	Vertical
10	2984.6	-70.34	-56.68	-30.00	26.68	13.66	RMS	Vertical
11	6750.825	-63.26	-57.01	-30.00	27.01	6.25	RMS	Vertical
12	11527.35	-68.39	-55.44	-30.00	25.44	12.95	RMS	Vertical

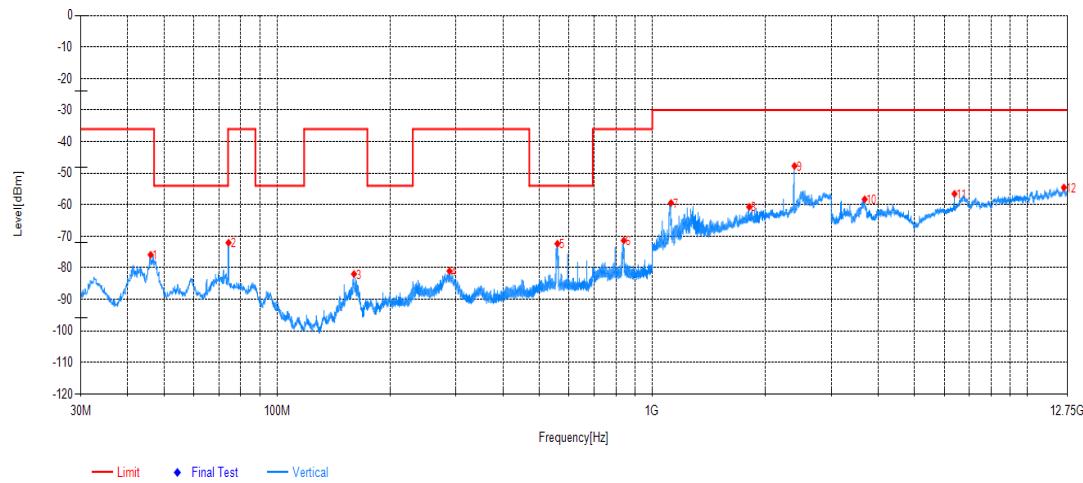
Final Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	2488.8	-47.66	-35.18	-30.00	5.18	12.48	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11n HT20 2412MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph

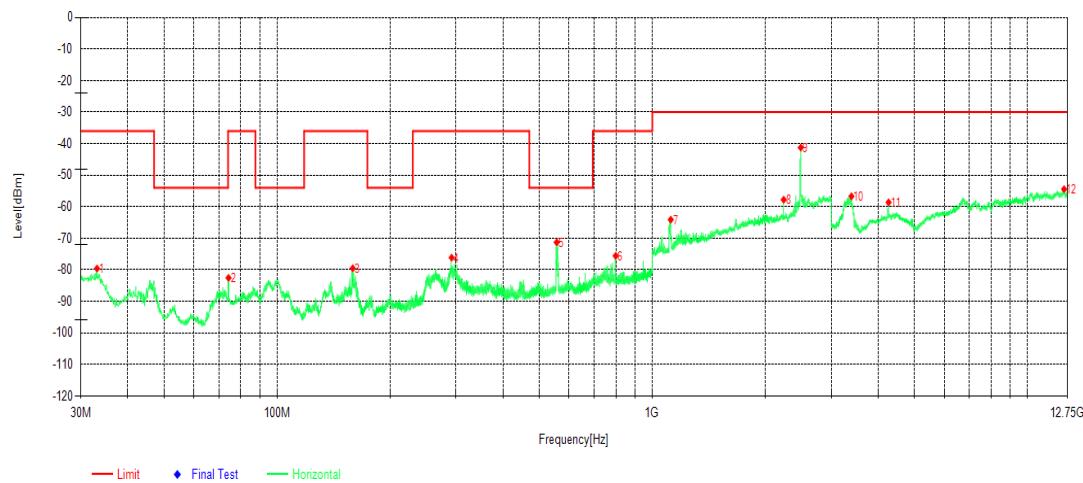
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	31.94	-66.16	-80.94	-36.00	44.94	-14.78	RMS	Horizontal
2	74.232	-58.01	-80.10	-36.00	44.10	-22.09	RMS	Horizontal
3	159.883	-61.05	-80.94	-36.00	44.94	-19.89	RMS	Horizontal
4	302.473	-65.02	-78.76	-36.00	42.76	-13.74	RMS	Horizontal
5	558.456	-68.75	-77.96	-54.00	23.96	-9.21	RMS	Horizontal
6	840.338	-67.86	-72.56	-36.00	36.56	-4.70	RMS	Horizontal
7	1117.6	-63.93	-66.11	-30.00	36.11	-2.18	RMS	Horizontal
8	2240	-63.97	-56.92	-30.00	26.92	7.05	RMS	Horizontal
9	2392.8	-60.17	-50.62	-30.00	20.62	9.55	RMS	Horizontal
10	4258.725	-58.51	-60.71	-30.00	30.71	-2.20	RMS	Horizontal
11	6749.85	-63.27	-57.31	-30.00	27.31	5.96	RMS	Horizontal
12	12483.825	-68.80	-54.49	-30.00	24.49	14.31	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11n HT20 2412MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

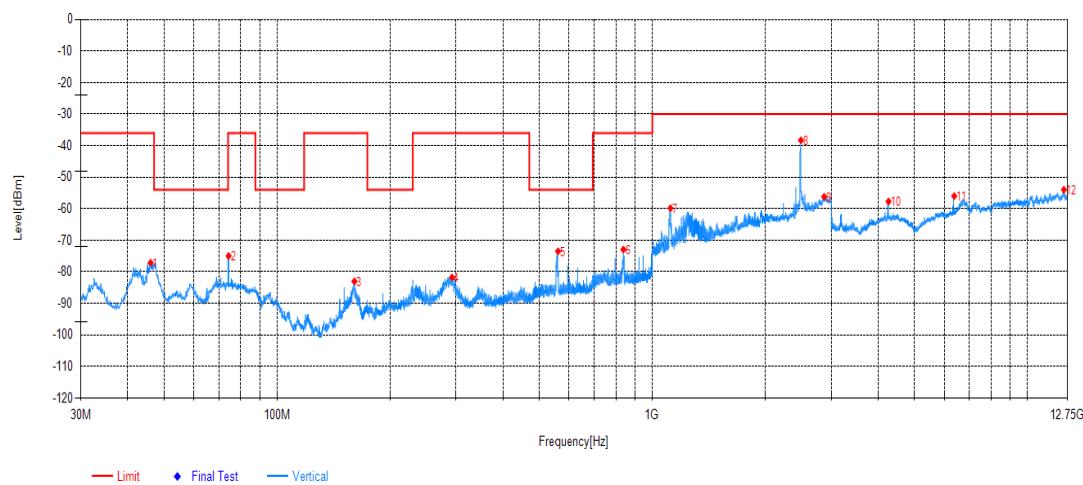
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.005	-62.21	-75.87	-36.00	39.87	-13.66	RMS	Vertical
2	74.232	-52.53	-72.06	-36.00	36.06	-19.53	RMS	Vertical
3	160.271	-64.31	-81.97	-36.00	45.97	-17.66	RMS	Vertical
4	288.02	-66.48	-81.02	-36.00	45.02	-14.54	RMS	Vertical
5	558.65	-62.82	-72.38	-54.00	18.38	-9.56	RMS	Vertical
6	839.174	-66.83	-71.35	-36.00	35.35	-4.52	RMS	Vertical
7	1121.2	-57.90	-59.45	-30.00	29.45	-1.55	RMS	Vertical
8	1812.4	-67.55	-60.69	-30.00	30.69	6.86	RMS	Vertical
9	2393.2	-57.44	-47.71	-30.00	17.71	9.73	RMS	Vertical
10	3682.5	-51.50	-58.28	-30.00	28.28	-6.78	RMS	Vertical
11	6387.15	-58.18	-56.54	-30.00	26.54	1.64	RMS	Vertical
12	12506.25	-69.32	-54.55	-30.00	24.55	14.77	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11n HT20 2472MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph

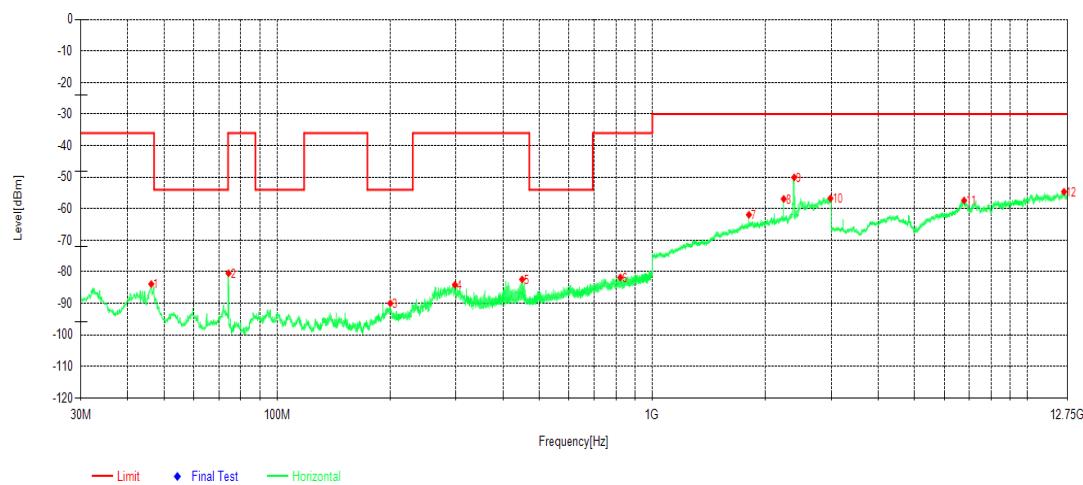
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	33.104	-64.94	-79.59	-36.00	43.59	-14.65	RMS	Horizontal
2	74.232	-60.47	-82.56	-36.00	46.56	-22.09	RMS	Horizontal
3	159.01	-59.57	-79.52	-36.00	43.52	-19.95	RMS	Horizontal
4	291.803	-62.14	-76.15	-36.00	40.15	-14.01	RMS	Horizontal
5	556.322	-62.00	-71.27	-54.00	17.27	-9.27	RMS	Horizontal
6	798.337	-70.36	-75.59	-36.00	39.59	-5.23	RMS	Horizontal
7	1119.8	-62.09	-64.11	-30.00	34.11	-2.02	RMS	Horizontal
8	2240	-64.82	-57.77	-30.00	27.77	7.05	RMS	Horizontal
9	2487.8	-53.56	-41.26	-30.00	11.26	12.30	RMS	Horizontal
10	3394.875	-50.19	-56.71	-30.00	26.71	-6.52	RMS	Horizontal
11	4262.625	-56.44	-58.63	-30.00	28.63	-2.19	RMS	Horizontal
12	12512.1	-68.90	-54.44	-30.00	24.44	14.46	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11n HT20 2472MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

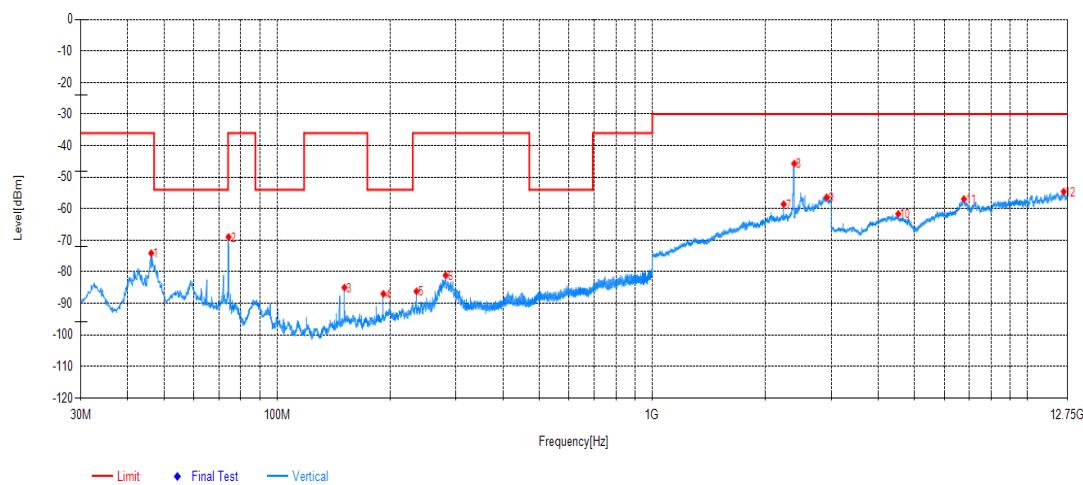
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.005	-63.45	-77.11	-36.00	41.11	-13.66	RMS	Vertical
2	74.232	-55.46	-74.99	-36.00	38.99	-19.53	RMS	Vertical
3	160.756	-65.35	-83.02	-36.00	47.02	-17.67	RMS	Vertical
4	292.579	-67.43	-81.77	-36.00	45.77	-14.34	RMS	Vertical
5	560.881	-64.04	-73.52	-54.00	19.52	-9.48	RMS	Vertical
6	837.913	-68.37	-72.95	-36.00	36.95	-4.58	RMS	Vertical
7	1117.4	-58.07	-59.84	-30.00	29.84	-1.77	RMS	Vertical
8	2489.4	-50.80	-38.30	-30.00	8.30	12.50	RMS	Vertical
9	2870.6	-69.99	-56.21	-30.00	26.21	13.78	RMS	Vertical
10	4262.625	-55.60	-57.71	-30.00	27.71	-2.11	RMS	Vertical
11	6380.325	-57.61	-56.00	-30.00	26.00	1.61	RMS	Vertical
12	12503.325	-68.81	-53.98	-30.00	23.98	14.83	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11n HT40 2422MHz	Voltage:	AC 230V/50Hz
Environment:	19.5 °C/62%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

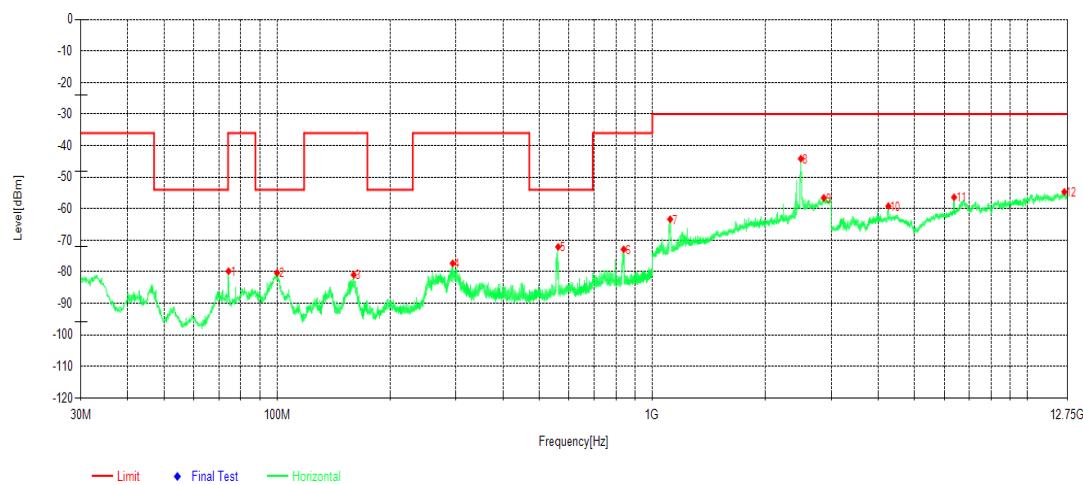
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.199	-68.14	-83.89	-36.00	47.89	-15.75	RMS	Horizontal
2	74.232	-58.37	-80.46	-36.00	44.46	-22.09	RMS	Horizontal
3	200.235	-73.57	-89.97	-54.00	35.97	-16.40	RMS	Horizontal
4	297.817	-70.39	-84.11	-36.00	48.11	-13.72	RMS	Horizontal
5	449.913	-71.42	-82.42	-36.00	46.42	-11.00	RMS	Horizontal
6	821.617	-76.41	-81.78	-36.00	45.78	-5.37	RMS	Horizontal
7	1809.2	-68.41	-61.92	-30.00	31.92	6.49	RMS	Horizontal
8	2240	-63.94	-56.89	-30.00	26.89	7.05	RMS	Horizontal
9	2388	-59.36	-50.06	-30.00	20.06	9.30	RMS	Horizontal
10	2982.8	-70.33	-56.72	-30.00	26.72	13.61	RMS	Horizontal
11	6774.225	-62.84	-57.38	-30.00	27.38	5.46	RMS	Horizontal
12	12513.075	-69.07	-54.62	-30.00	24.62	14.45	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11n HT40 2422MHz	Voltage:	AC 230V/50Hz
Environment:	19.5 °C/62%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

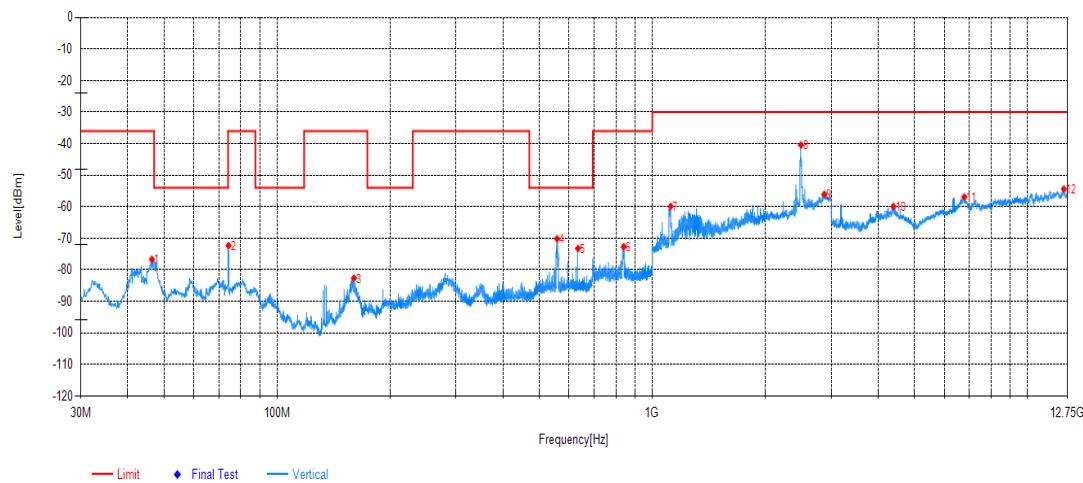
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.199	-60.45	-74.10	-36.00	38.10	-13.65	RMS	Vertical
2	74.232	-49.41	-68.94	-36.00	32.94	-19.53	RMS	Vertical
3	151.153	-66.37	-84.99	-36.00	48.99	-18.62	RMS	Vertical
4	191.99	-69.51	-87.00	-54.00	33.00	-17.49	RMS	Vertical
5	235.252	-70.29	-86.21	-36.00	50.21	-15.92	RMS	Vertical
6	281.327	-66.43	-81.11	-36.00	45.11	-14.68	RMS	Vertical
7	2240	-66.06	-58.56	-30.00	28.56	7.50	RMS	Vertical
8	2389.4	-55.26	-45.67	-30.00	15.67	9.59	RMS	Vertical
9	2914.8	-70.25	-56.39	-30.00	26.39	13.86	RMS	Vertical
10	4522.95	-59.97	-61.67	-30.00	31.67	-1.70	RMS	Vertical
11	6772.275	-62.81	-56.94	-30.00	26.94	5.87	RMS	Vertical
12	12482.85	-69.03	-54.57	-30.00	24.57	14.46	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11n HT40 2462MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

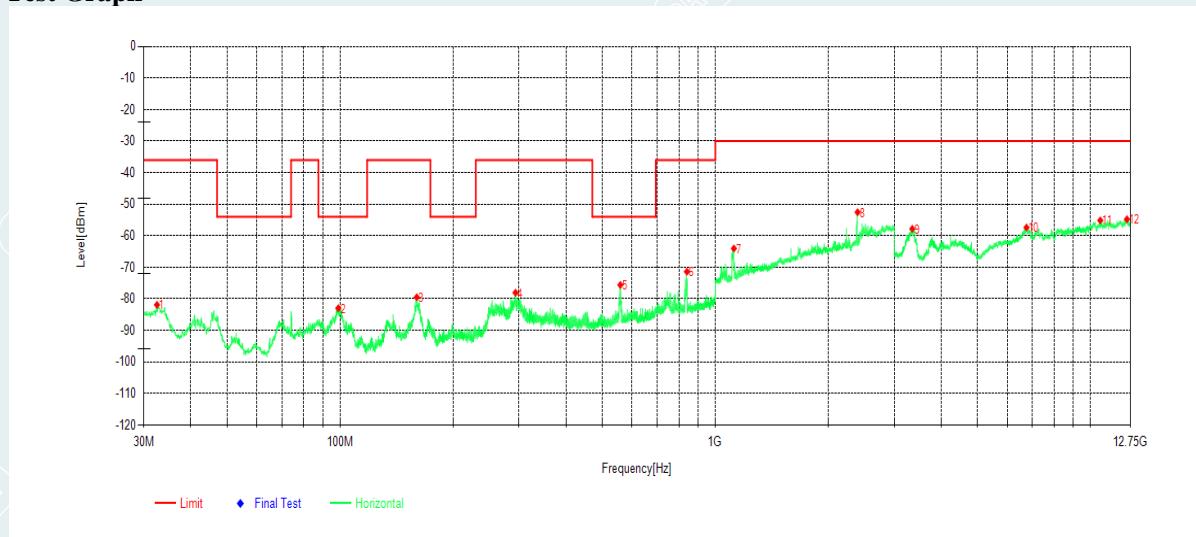
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	74.232	-57.72	-79.81	-36.00	43.81	-22.09	RMS	Horizontal
2	99.937	-63.47	-80.31	-54.00	26.31	-16.84	RMS	Horizontal
3	160.077	-61.07	-80.95	-36.00	44.95	-19.88	RMS	Horizontal
4	293.84	-63.41	-77.31	-36.00	41.31	-13.90	RMS	Horizontal
5	561.172	-63.00	-72.11	-54.00	18.11	-9.11	RMS	Horizontal
6	838.883	-68.12	-72.89	-36.00	36.89	-4.77	RMS	Horizontal
7	1115.6	-61.04	-63.34	-30.00	33.34	-2.30	RMS	Horizontal
8	2488.4	-56.44	-44.13	-30.00	14.13	12.31	RMS	Horizontal
9	2864.8	-69.76	-56.54	-30.00	26.54	13.22	RMS	Horizontal
10	4258.725	-56.95	-59.15	-30.00	29.15	-2.20	RMS	Horizontal
11	6371.55	-58.01	-56.39	-30.00	26.39	1.62	RMS	Horizontal
12	12532.575	-68.77	-54.66	-30.00	24.66	14.11	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11n HT40 2462MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

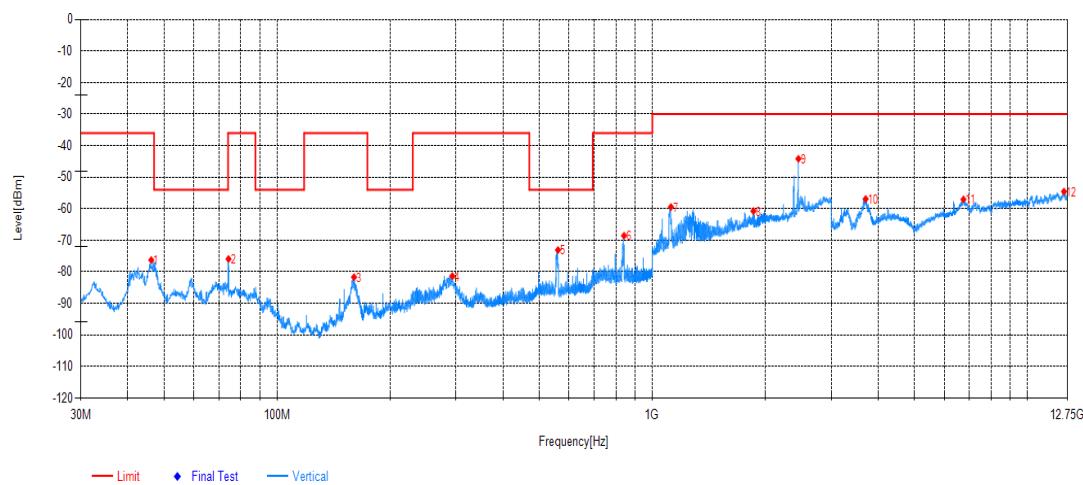
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.393	-63.03	-76.66	-36.00	40.66	-13.63	RMS	Vertical
2	74.232	-52.83	-72.36	-36.00	36.36	-19.53	RMS	Vertical
3	160.271	-64.96	-82.62	-36.00	46.62	-17.66	RMS	Vertical
4	557.389	-60.59	-70.16	-54.00	16.16	-9.57	RMS	Vertical
5	633.631	-65.69	-73.23	-54.00	19.23	-7.54	RMS	Vertical
6	838.592	-68.11	-72.65	-36.00	36.65	-4.54	RMS	Vertical
7	1119.2	-58.25	-59.90	-30.00	29.90	-1.65	RMS	Vertical
8	2489.8	-52.94	-40.43	-30.00	10.43	12.51	RMS	Vertical
9	2873	-69.74	-56.05	-30.00	26.05	13.69	RMS	Vertical
10	4392.3	-58.17	-59.92	-30.00	29.92	-1.75	RMS	Vertical
11	6782.025	-62.63	-56.93	-30.00	26.93	5.70	RMS	Vertical
12	12498.45	-69.26	-54.40	-30.00	24.40	14.86	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11ax HE20 2412MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64% RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph

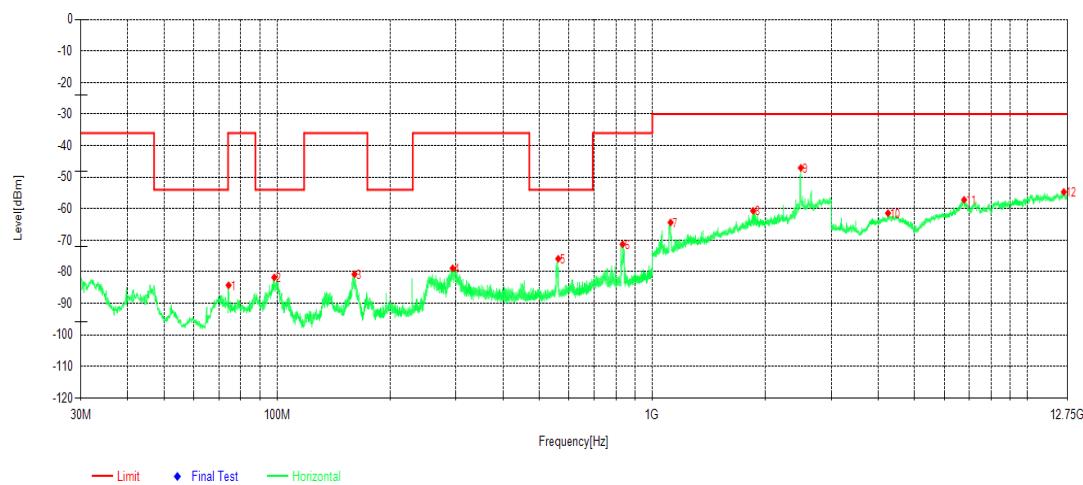
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	32.522	-67.20	-81.91	-36.00	45.91	-14.71	RMS	Horizontal
2	98.87	-66.12	-82.97	-54.00	28.97	-16.85	RMS	Horizontal
3	160.077	-59.65	-79.53	-36.00	43.53	-19.88	RMS	Horizontal
4	293.355	-64.15	-78.08	-36.00	42.08	-13.93	RMS	Horizontal
5	558.165	-66.39	-75.61	-54.00	21.61	-9.22	RMS	Horizontal
6	839.95	-66.69	-71.41	-36.00	35.41	-4.72	RMS	Horizontal
7	1121	-62.08	-64.06	-30.00	34.06	-1.98	RMS	Horizontal
8	2393.6	-62.13	-52.56	-30.00	22.56	9.57	RMS	Horizontal
9	3349.05	-51.46	-57.80	-30.00	27.80	-6.34	RMS	Horizontal
10	6751.8	-63.32	-57.40	-30.00	27.40	5.92	RMS	Horizontal
11	10618.65	-66.62	-55.16	-30.00	25.16	11.46	RMS	Horizontal
12	12504.3	-69.39	-54.79	-30.00	24.79	14.60	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11ax HE20 2412MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

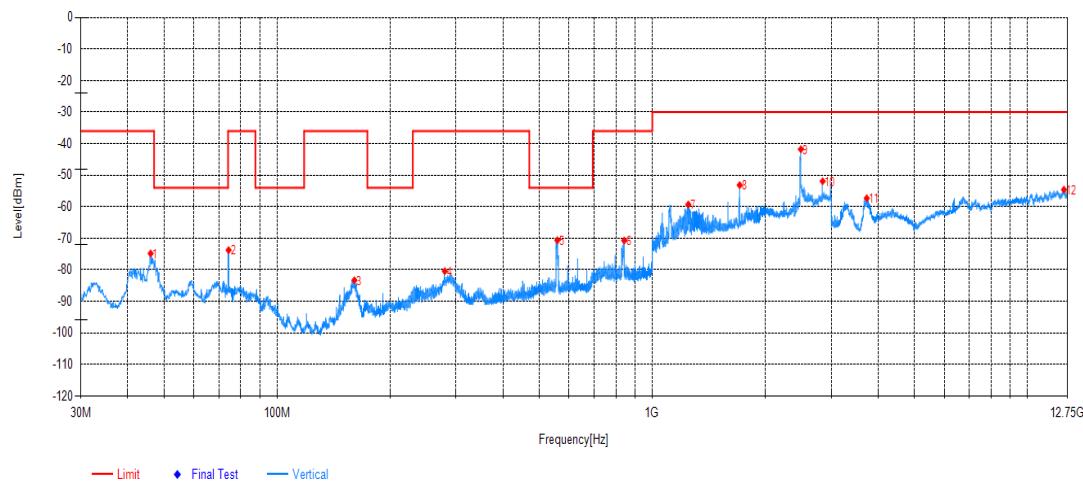
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.199	-62.62	-76.27	-36.00	40.27	-13.65	RMS	Vertical
2	74.232	-56.41	-75.94	-36.00	39.94	-19.53	RMS	Vertical
3	160.271	-64.04	-81.70	-36.00	45.70	-17.66	RMS	Vertical
4	293.064	-67.04	-81.36	-36.00	45.36	-14.32	RMS	Vertical
5	560.396	-63.59	-73.10	-54.00	19.10	-9.51	RMS	Vertical
6	840.726	-64.12	-68.56	-36.00	32.56	-4.44	RMS	Vertical
7	1121.2	-57.92	-59.47	-30.00	29.47	-1.55	RMS	Vertical
8	1859.8	-67.40	-60.74	-30.00	30.74	6.66	RMS	Vertical
9	2452	-55.59	-44.17	-30.00	14.17	11.42	RMS	Vertical
10	3702.975	-50.25	-56.91	-30.00	26.91	-6.66	RMS	Vertical
11	6749.85	-63.33	-57.06	-30.00	27.06	6.27	RMS	Vertical
12	12508.2	-69.28	-54.56	-30.00	24.56	14.72	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11ax HE20 2472MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

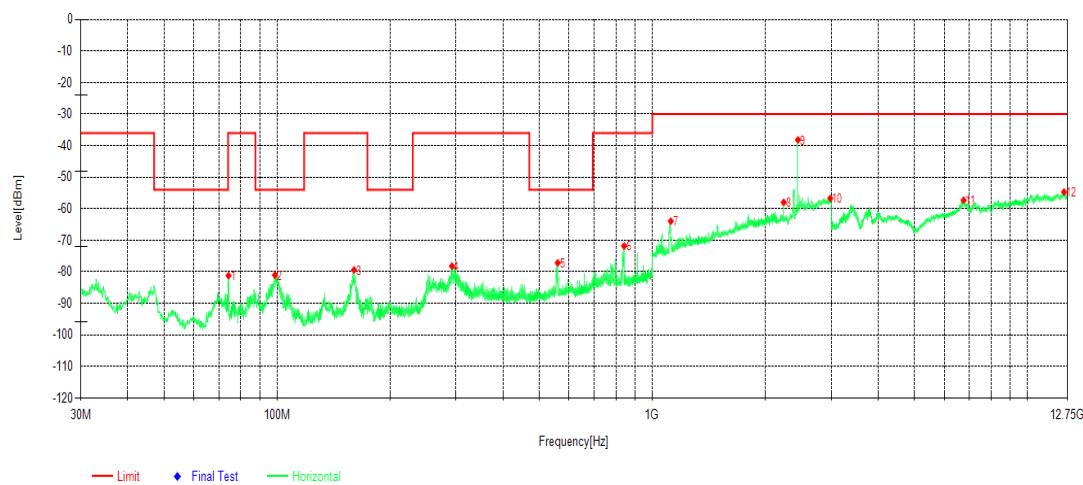
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	74.232	-62.17	-84.26	-36.00	48.26	-22.09	RMS	Horizontal
2	98.288	-64.94	-81.79	-54.00	27.79	-16.85	RMS	Horizontal
3	160.853	-60.93	-80.77	-36.00	44.77	-19.84	RMS	Horizontal
4	293.549	-64.95	-78.87	-36.00	42.87	-13.92	RMS	Horizontal
5	561.172	-66.75	-75.86	-54.00	21.86	-9.11	RMS	Horizontal
6	833.451	-66.25	-71.27	-36.00	35.27	-5.02	RMS	Horizontal
7	1118.4	-62.22	-64.34	-30.00	34.34	-2.12	RMS	Horizontal
8	1857.4	-67.37	-60.66	-30.00	30.66	6.71	RMS	Horizontal
9	2488.4	-59.35	-47.04	-30.00	17.04	12.31	RMS	Horizontal
10	4248.975	-59.20	-61.43	-30.00	31.43	-2.23	RMS	Horizontal
11	6777.15	-62.59	-57.19	-30.00	27.19	5.40	RMS	Horizontal
12	12498.45	-69.31	-54.68	-30.00	24.68	14.63	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11ax HE20 2472MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

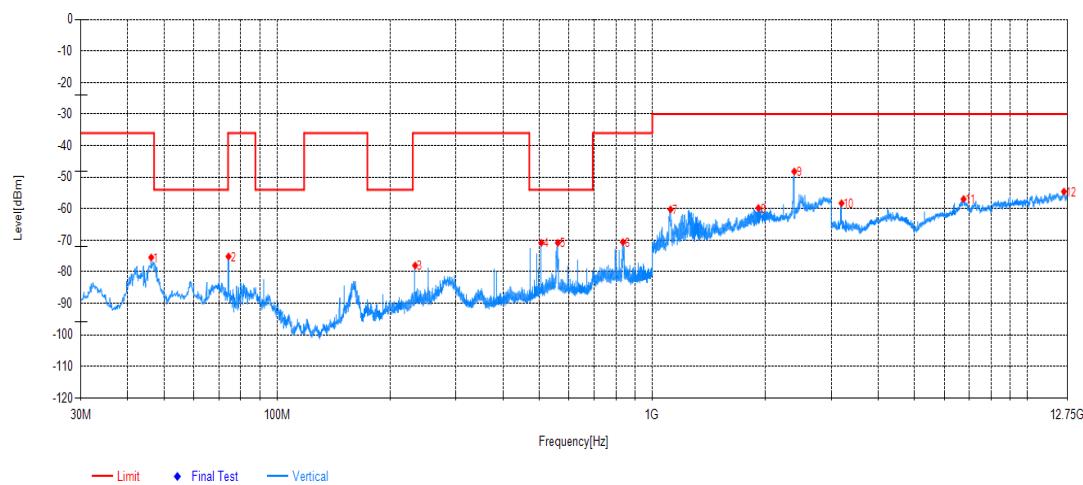
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.005	-61.15	-74.81	-36.00	38.81	-13.66	RMS	Vertical
2	74.232	-54.24	-73.77	-36.00	37.77	-19.53	RMS	Vertical
3	160.659	-65.66	-83.33	-36.00	47.33	-17.67	RMS	Vertical
4	279.969	-65.72	-80.43	-36.00	44.43	-14.71	RMS	Vertical
5	558.262	-61.04	-70.61	-54.00	16.61	-9.57	RMS	Vertical
6	841.405	-66.31	-70.71	-36.00	34.71	-4.40	RMS	Vertical
7	1247	-60.15	-59.29	-30.00	29.29	0.86	RMS	Vertical
8	1709	-58.99	-53.16	-30.00	23.16	5.83	RMS	Vertical
9	2488.4	-54.24	-41.77	-30.00	11.77	12.47	RMS	Vertical
10	2845.6	-64.71	-51.92	-30.00	21.92	12.79	RMS	Vertical
11	3729.3	-51.27	-57.30	-30.00	27.30	-6.03	RMS	Vertical
12	12508.2	-69.32	-54.60	-30.00	24.60	14.72	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11ax HE40 2422MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

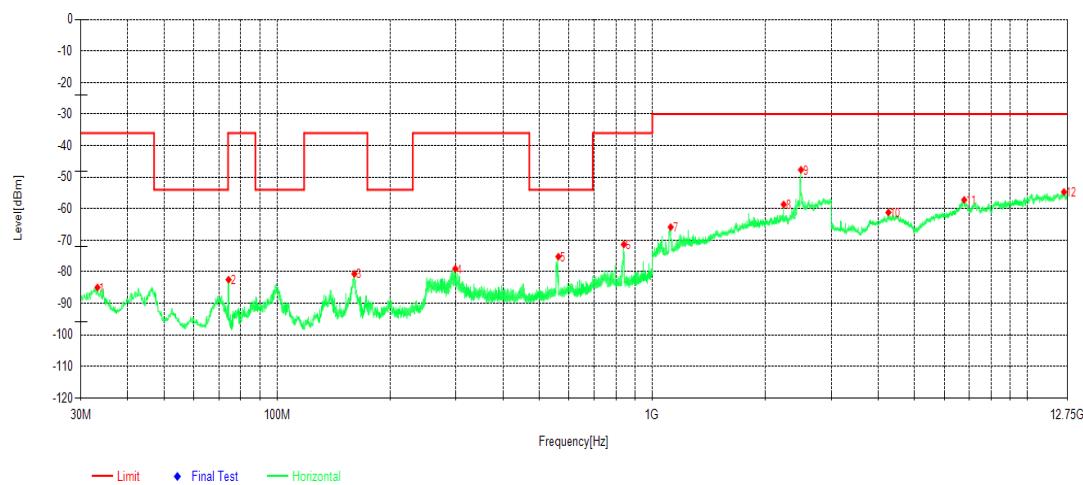
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	74.232	-59.12	-81.21	-36.00	45.21	-22.09	RMS	Horizontal
2	98.676	-64.19	-81.04	-54.00	27.04	-16.85	RMS	Horizontal
3	160.271	-59.53	-79.40	-36.00	43.40	-19.87	RMS	Horizontal
4	292.482	-64.22	-78.19	-36.00	42.19	-13.97	RMS	Horizontal
5	559.523	-67.97	-77.15	-54.00	23.15	-9.18	RMS	Horizontal
6	841.017	-67.17	-71.83	-36.00	35.83	-4.66	RMS	Horizontal
7	1119.6	-61.92	-63.96	-30.00	33.96	-2.04	RMS	Horizontal
8	2240	-65.07	-58.02	-30.00	28.02	7.05	RMS	Horizontal
9	2445.2	-49.28	-38.19	-30.00	8.19	11.09	RMS	Horizontal
10	2982	-70.37	-56.73	-30.00	26.73	13.64	RMS	Horizontal
11	6757.65	-63.12	-57.32	-30.00	27.32	5.80	RMS	Horizontal
12	12508.2	-69.24	-54.71	-30.00	24.71	14.53	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11ax HE40 2422MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

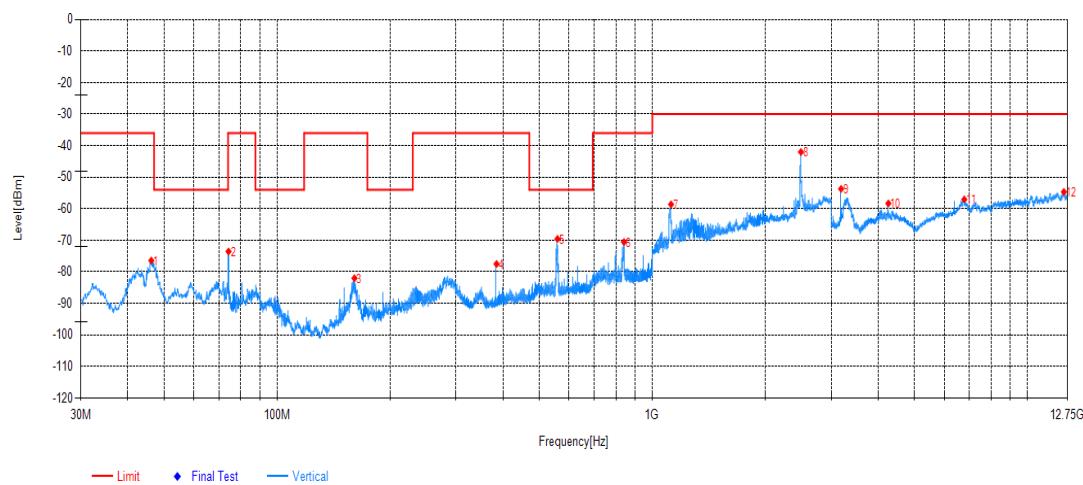
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.199	-61.80	-75.45	-36.00	39.45	-13.65	RMS	Vertical
2	74.232	-55.61	-75.14	-36.00	39.14	-19.53	RMS	Vertical
3	233.312	-61.90	-78.02	-36.00	42.02	-16.12	RMS	Vertical
4	506.076	-61.24	-70.80	-54.00	16.80	-9.56	RMS	Vertical
5	559.911	-61.28	-70.82	-54.00	16.82	-9.54	RMS	Vertical
6	834.809	-65.86	-70.57	-36.00	34.57	-4.71	RMS	Vertical
7	1119	-58.55	-60.21	-30.00	30.21	-1.66	RMS	Vertical
8	1917.6	-66.31	-59.77	-30.00	29.77	6.54	RMS	Vertical
9	2391	-57.88	-48.21	-30.00	18.21	9.67	RMS	Vertical
10	3194.025	-51.44	-58.26	-30.00	28.26	-6.82	RMS	Vertical
11	6751.8	-63.17	-56.94	-30.00	26.94	6.23	RMS	Vertical
12	12505.275	-69.35	-54.57	-30.00	24.57	14.78	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11ax HE40 2462MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	33.201	-70.32	-84.96	-36.00	48.96	-14.64	RMS	Horizontal
2	74.232	-60.41	-82.50	-36.00	46.50	-22.09	RMS	Horizontal
3	160.756	-60.80	-80.65	-36.00	44.65	-19.85	RMS	Horizontal
4	298.496	-65.36	-79.04	-36.00	43.04	-13.68	RMS	Horizontal
5	561.851	-66.12	-75.19	-54.00	21.19	-9.07	RMS	Horizontal
6	839.756	-66.60	-71.34	-36.00	35.34	-4.74	RMS	Horizontal
7	1119.4	-63.80	-65.85	-30.00	35.85	-2.05	RMS	Horizontal
8	2239.8	-65.72	-58.66	-30.00	28.66	7.06	RMS	Horizontal
9	2489	-59.98	-47.65	-30.00	17.65	12.33	RMS	Horizontal
10	4259.7	-59.00	-61.19	-30.00	31.19	-2.19	RMS	Horizontal
11	6780.075	-62.56	-57.22	-30.00	27.22	5.34	RMS	Horizontal
12	12504.3	-69.28	-54.68	-30.00	24.68	14.60	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	TX 802.11ax HE40 2462MHz	Voltage:	AC 230V/50Hz
Environment:	18.1 °C/64%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-28	Remark:	/

Test Graph**Suspected Data List**

NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.199	-62.76	-76.41	-36.00	40.41	-13.65	RMS	Vertical
2	74.232	-54.00	-73.53	-36.00	37.53	-19.53	RMS	Vertical
3	160.756	-64.35	-82.02	-36.00	46.02	-17.67	RMS	Vertical
4	384.341	-64.92	-77.53	-36.00	41.53	-12.61	RMS	Vertical
5	558.941	-60.00	-69.55	-54.00	15.55	-9.55	RMS	Vertical
6	840.532	-66.08	-70.53	-36.00	34.53	-4.45	RMS	Vertical
7	1122	-57.08	-58.61	-30.00	28.61	-1.53	RMS	Vertical
8	2489.2	-54.52	-42.02	-30.00	12.02	12.50	RMS	Vertical
9	3186.225	-46.97	-53.73	-30.00	23.73	-6.76	RMS	Vertical
10	4256.775	-56.24	-58.34	-30.00	28.34	-2.10	RMS	Vertical
11	6782.025	-62.76	-57.06	-30.00	27.06	5.70	RMS	Vertical
12	12505.275	-69.44	-54.66	-30.00	24.66	14.78	RMS	Vertical

5.7 RECEIVER SPURIOUS EMISSIONS

Test Requirement: EN300 328 V2.2.2/ 4.3.2.10

Test Method: EN300 328 V2.2.2/5.4.10.2.2

5.7.1 LIMIT

The spurious emissions of the receiver shall not exceed the values given in table 3.

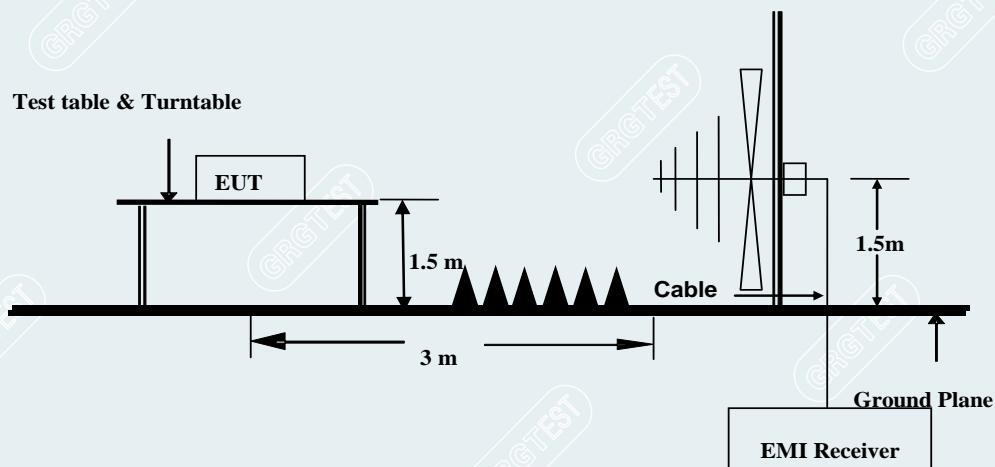
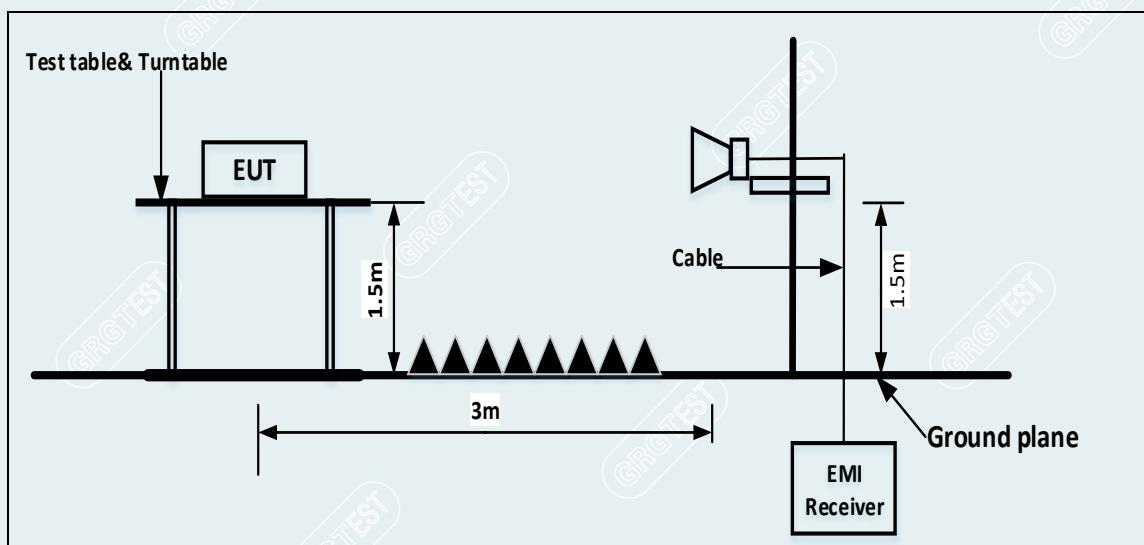
In case of equipment with antenna connectors, these limits apply to emissions at the antenna port (conducted). For emissions radiated by the cabinet or for emissions radiated by integral antenna equipment (without antenna connectors), these limits are e.r.p. for emissions up to 1 GHz and e.i.r.p. for emissions above 1 GHz.

This device uses Radiated measurement.

Table 3: Spurious emission limits for receivers

Frequency range	Maximum power	Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12,75 GHz	-47 dBm	1 MHz

----- The following blanks -----

TEST CONFIGURATION**30MHz-1000MHz****1000MHz-12750MHz**

----- The following blanks -----

5.7.2 TEST PROCEDURES

Test channel: 2412MHz, 2472MHz for 802.11b/g/n HT20/ax HE20
2422MHz, 2462MHz for 802.11n HT40/ax HE40

Test condition: Normal test conditions.

Test procedure: Test procedure is according to Clause 5.4.10.2.2 of EN 300 328 V2.2.2

Remark: /

5.7.3 DATA SAMPLE

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
XXX	-58.02	-73.33	-57.00	16.33	-15.31	RMS	Horizontal

Frequency (MHz) = Emission frequency in MHz

Reading (dBm) = Uncorrected Analyzer / Receiver reading

Level (dBm) = Reading (dBm) + Factor (dB)

Limit (dBm) = Limit stated in standard

Margin (dB) = Limit (dBm) – Level (dBm)

RMS = Root Mean Square

----- The following blanks -----

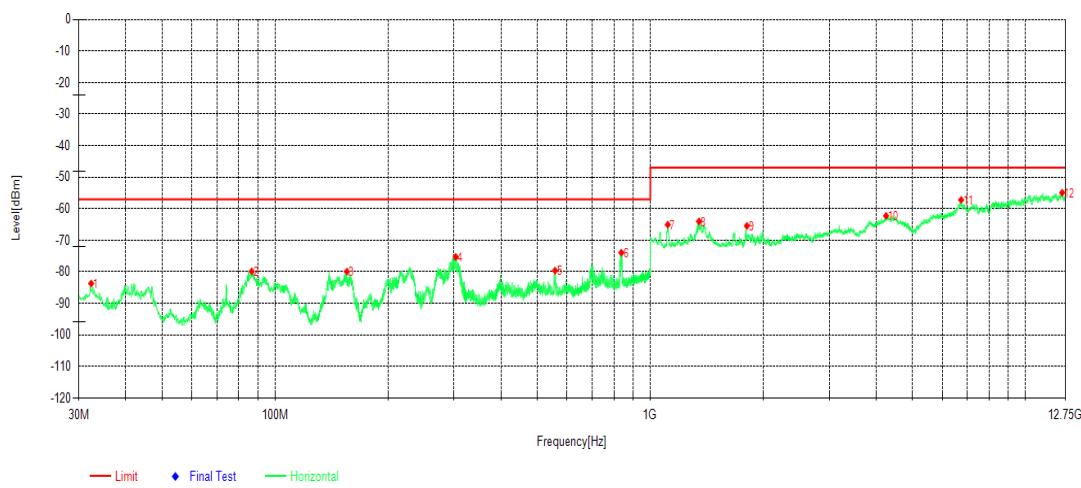
5.7.4 TEST RESULTS

Pre-scanned in three placement surfaces, Erect, Lateral standing, Handstand. The worst cases mode (Handstand) were recorded in this report.

Pre-scan all modes and recorded the worst case results in this report (IEEE 802.11b)

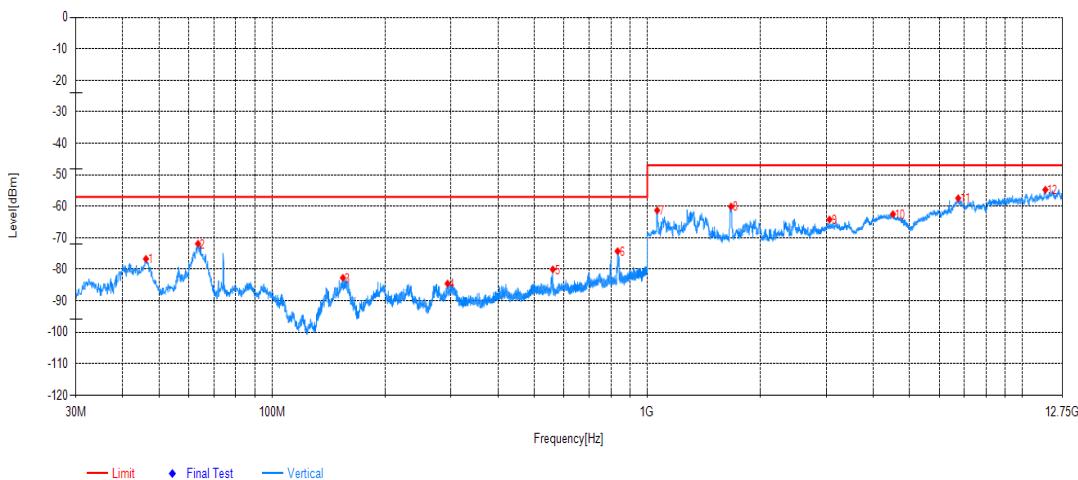
Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	RX 802.11b 2412MHz	Voltage:	AC 230V/50Hz
Environment:	24.4 °C/53% RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-31	Remark:	/

Test Graph



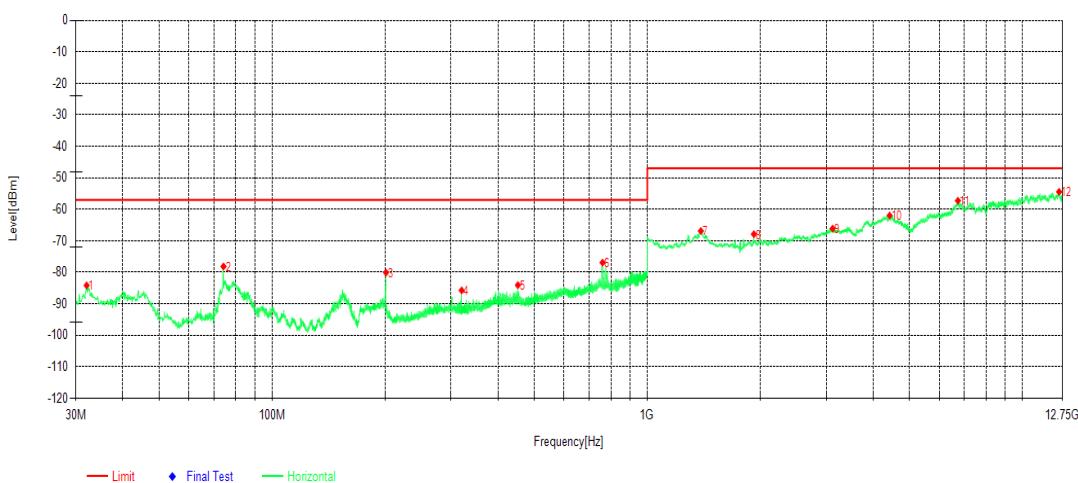
Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	32.328	-68.98	-83.71	-57.00	26.71	-14.73	RMS	Horizontal
2	86.648	-60.76	-79.86	-57.00	22.86	-19.10	RMS	Horizontal
3	155.324	-59.75	-79.96	-57.00	22.96	-20.21	RMS	Horizontal
4	302.861	-61.53	-75.29	-57.00	18.29	-13.76	RMS	Horizontal
5	557.001	-70.38	-79.63	-57.00	22.63	-9.25	RMS	Horizontal
6	836.943	-69.06	-73.92	-57.00	16.92	-4.86	RMS	Horizontal
7	1112.8	-50.83	-65.05	-47.00	18.05	-14.22	RMS	Horizontal
8	1347.8	-53.01	-64.02	-47.00	17.02	-11.01	RMS	Horizontal
9	1808.4	-52.13	-65.44	-47.00	18.44	-13.31	RMS	Horizontal
10	4248.875	-60.29	-62.26	-47.00	15.26	-1.97	RMS	Horizontal
11	6735.175	-62.67	-57.22	-47.00	10.22	5.45	RMS	Horizontal
12	12519.7	-69.42	-54.94	-47.00	7.94	14.48	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	RX 802.11b 2412MHz	Voltage:	AC 230V/50Hz
Environment:	24.4 °C/53%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-31	Remark:	/

Test Graph**Suspected Data List**

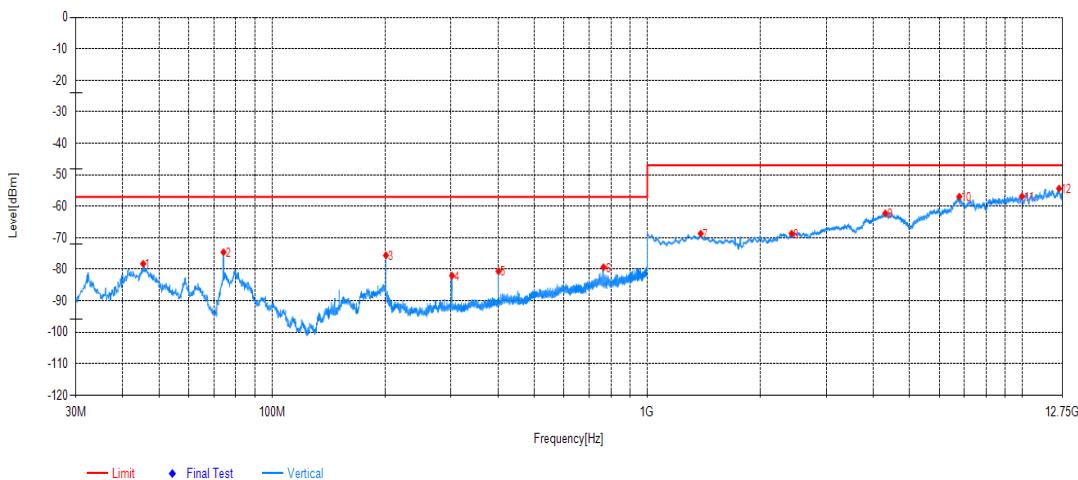
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	46.102	-63.05	-76.70	-57.00	19.70	-13.65	RMS	Vertical
2	63.465	-57.50	-71.89	-57.00	14.89	-14.39	RMS	Vertical
3	154.451	-64.45	-82.71	-57.00	25.71	-18.26	RMS	Vertical
4	293.646	-70.27	-84.55	-57.00	27.55	-14.28	RMS	Vertical
5	559.911	-70.49	-80.03	-57.00	23.03	-9.54	RMS	Vertical
6	833.645	-69.49	-74.26	-57.00	17.26	-4.77	RMS	Vertical
7	1062.275	-48.20	-61.28	-47.00	14.28	-13.08	RMS	Vertical
8	1672.1	-47.40	-60.05	-47.00	13.05	-12.65	RMS	Vertical
9	3058.6	-56.77	-64.21	-47.00	17.21	-7.44	RMS	Vertical
10	4516.775	-60.95	-62.48	-47.00	15.48	-1.53	RMS	Vertical
11	6737.525	-63.18	-57.45	-47.00	10.45	5.73	RMS	Vertical
12	11510.375	-68.53	-54.75	-47.00	7.75	13.78	RMS	Vertical

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	RX 802.11b 2472MHz	Voltage:	AC 230V/50Hz
Environment:	24.4 °C/53%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-31	Remark:	/

Test Graph

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	32.037	-69.40	-84.17	-57.00	27.17	-14.77	RMS	Horizontal
2	74.232	-56.07	-78.16	-57.00	21.16	-22.09	RMS	Horizontal
3	201.205	-63.60	-80.10	-57.00	23.10	-16.50	RMS	Horizontal
4	320.03	-71.07	-85.78	-57.00	28.78	-14.71	RMS	Horizontal
5	452.047	-72.96	-84.07	-57.00	27.07	-11.11	RMS	Horizontal
6	760.119	-71.51	-76.94	-57.00	19.94	-5.43	RMS	Horizontal
7	1388.925	-56.97	-66.89	-47.00	19.89	-9.92	RMS	Horizontal
8	1923.55	-55.77	-67.91	-47.00	20.91	-12.14	RMS	Horizontal
9	3118.525	-59.37	-66.14	-47.00	19.14	-6.77	RMS	Horizontal
10	4422.775	-60.40	-61.97	-47.00	14.97	-1.57	RMS	Horizontal
11	6728.125	-62.70	-57.27	-47.00	10.27	5.43	RMS	Horizontal
12	12513.825	-69.00	-54.43	-47.00	7.43	14.57	RMS	Horizontal

Project No	E20230711057201	EUT:	Camera E1
Model:	CH-C01E	Sample No:	E20230711057201-0002
Mode:	RX 802.11b 2472MHz	Voltage:	AC 230V/50Hz
Environment:	24.4 °C/53%RH/101.0kPa	Engineer:	Gong Xuan
Test Date:	2023-07-31	Remark:	/

Test Graph

Suspected Data List								
NO.	Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Detector	Polarity
1	45.326	-64.58	-78.27	-57.00	21.27	-13.69	RMS	Vertical
2	74.232	-55.04	-74.57	-57.00	17.57	-19.53	RMS	Vertical
3	201.108	-58.04	-75.58	-57.00	18.58	-17.54	RMS	Vertical
4	301.6	-68.10	-82.01	-57.00	25.01	-13.91	RMS	Vertical
5	401.413	-68.51	-80.65	-57.00	23.65	-12.14	RMS	Vertical
6	764.096	-73.76	-79.35	-57.00	22.35	-5.59	RMS	Vertical
7	1387.75	-56.96	-68.67	-47.00	21.67	-11.71	RMS	Vertical
8	2425.275	-58.34	-68.65	-47.00	21.65	-10.31	RMS	Vertical
9	4307.625	-60.08	-62.23	-47.00	15.23	-2.15	RMS	Vertical
10	6782.175	-62.54	-56.93	-47.00	9.93	5.61	RMS	Vertical
11	9966.425	-66.12	-56.82	-47.00	9.82	9.30	RMS	Vertical
12	12512.65	-69.11	-54.35	-47.00	7.35	14.76	RMS	Vertical

5.8 RECEIVER BLOCKING

Test Requirement: EN300 328 V2.2.2/ 4.3.2.11

Test Method: EN300 328 V2.2.2/5.4.11.2.1

5.8.1 LIMIT

For equipment that supports a PER or FER test to be performed, the minimum performance criterion shall be a PER or FER less than or equal to 10 %.

For equipment that does not support a PER or a FER test to be performed, the minimum performance criterion shall be no loss of the wireless transmission function needed for the intended use of the equipment.

The blocking levels at specified frequency offsets shall be equal to or greater than the limits defined for.

Receiver Blocking parameters for Receiver Category 1 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking Signal frequency (MHz)	Blocking signal power (dBm) (see note 4)	Type of blocking signal
(-133dBm+10 × log ₁₀ (OCBW)) or -68dBm whichever is less (see note 2)	2380 2504		
(-139dBm+10 × log ₁₀ (OCBW)) or -74dBm whichever is less (see note 3)	2300 2330 2360 2524 2584 2674	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 20 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Receiver Blocking parameters for Receiver Category 2 equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking Signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139dBm+10 × log ₁₀ (OCBW)+10dBm) or (-74dBm+10dBm) whichever is less (see note 2)	2380 2504 2300 2584	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 26 dB where P_{min} is the minimum level of wanted signal required

to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Receiver Blocking parameters for Receiver Category 3 equipment

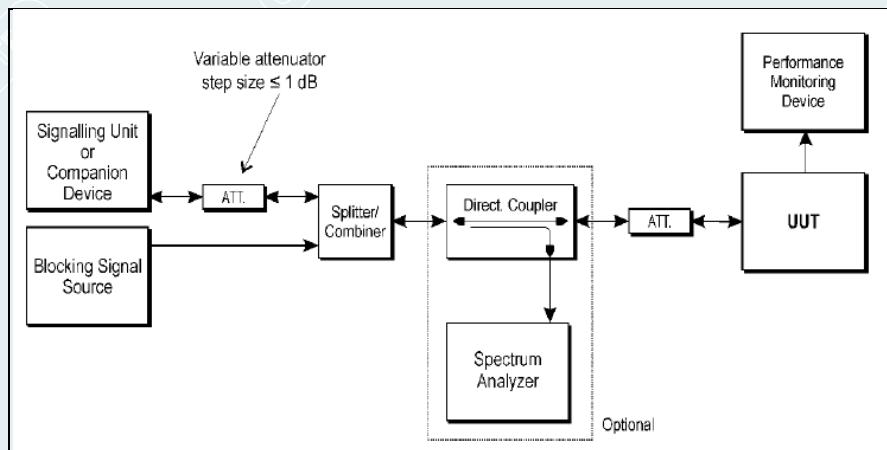
Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	Blocking Signal frequency (MHz)	Blocking signal power (dBm) (see note 3)	Type of blocking signal
(-139dBm+10 × log ₁₀ (OCBW)+20dBm) or (-74dBm+20dBm) whichever is less (see note 2)	2380 2504 2300 2584	-34	CW

NOTE 1: OCBW is in Hz.

NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to P_{min} + 30 dB where P_{min} is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.

NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

5.8.2 TEST CONFIGURATION



5.8.3 TEST PROCEDURES

Test condition: Keep the EUT on the lowest and highest channel working mode.

Test procedure: Step1:

Test condition: For non-FHSS equipment, the UUT shall be set to the lowest operating channel on which the blocking test has to be performed (see clause 5.4.11.1).

Step 2:

The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category and type of equipment.

Step 3:

With the blocking signal generator switched off, a communication link is established between the UUT and the associated companion device using the test setup shown in figure 6.

Unless the option provided in note 2 of the applicable table referred to in clause 5.4.11.2.1 is used, the level of the wanted signal shall be set to the value provided in the table corresponding to the receiver category and type of equipment. The test procedure defined in clause 5.4.2, and more in particular clause 5.4.2.2.1.2, can be used to measure the (conducted) level of the wanted signal however no correction shall be made for antenna gain of

the companion device (step 6 in clause 5.4.2.2.1.2 shall be ignored). This level may be measured directly at the output of the companion device and a correction is made for the coupling loss into the UUT. The actual level for the wanted signal shall be recorded in the test report.

•When the option provided in note 2 of the applicable table referred to in clause 5.4.11.2.1 is used, the attenuation of the variable attenuator shall be increased in 1 dB steps to a value at which the minimum performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still met. The resulting level for the wanted signal at the input of the UUT is Pmin. This signal level (Pmin) is increased by the value provided in note 2 of the applicable table corresponding to the receiver category and type of equipment.

Step 4:

The blocking signal at the UUT is set to the level provided in the table corresponding to the receiver category and type of equipment.

If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 are met then proceed to step 6.

Step 5:

If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is not met, step 3 and step 4 shall be repeated after that the frequency of the blocking signal set in step 2 has been increased with a value equal to the Occupied Channel Bandwidth except:

- For the blocking frequency 2 380 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be increased by 3 dB.

- For the blocking frequency 2 503,5 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be decreased by 3 dB.

If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still not met, step 3 and step 4 shall be repeated after that the frequency of the blocking signal set in step 2 has been decreased with a value equal to the Occupied Channel Bandwidth except:

- For the blocking frequency 2 380 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be decreased by 3 dB.

- For the blocking frequency 2 503,5 MHz, where this frequency offset shall be less than or equal to 10 MHz. If this frequency offset is more than 7 MHz, the level of the wanted signal shall be increased by 3 dB.

If the performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still

not met, the UUT fails to comply with the Receiver Blocking requirement and step 6 and step 7 are no longer required.

It shall be recorded in the test report whether the shift of blocking frequencies as described in the present step was used.

Step 6:

Repeat step 4 and step 5 for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category and type of equipment.

Step 7

For non-FHSS equipment, repeat step 2 to step 6 with the UUT operating at the highest operating channel on which the blocking test has to be performed (see clause 5.4.11.1).

Step 8

It shall be assessed and recorded in the test report whether the UUT complies with the Receiver Blocking requirement.

Keep the EUT on the lowest and highest channel working mode.

Remark:

If the equipment can be configured to operate with different Nominal Channel Bandwidths (e.g. 20 MHz and 40 MHz) and different data rates, then the combination of the smallest channel bandwidth and the lowest data rate for this channel bandwidth which still allows the equipment to operate as intended shall be used.

Test channel:

2412MHz, 2472MHz for 802.11b

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5.8.4 TEST RESULTS

Test environment: Normal condition:
25.8°C/57%RH/101.0kPa

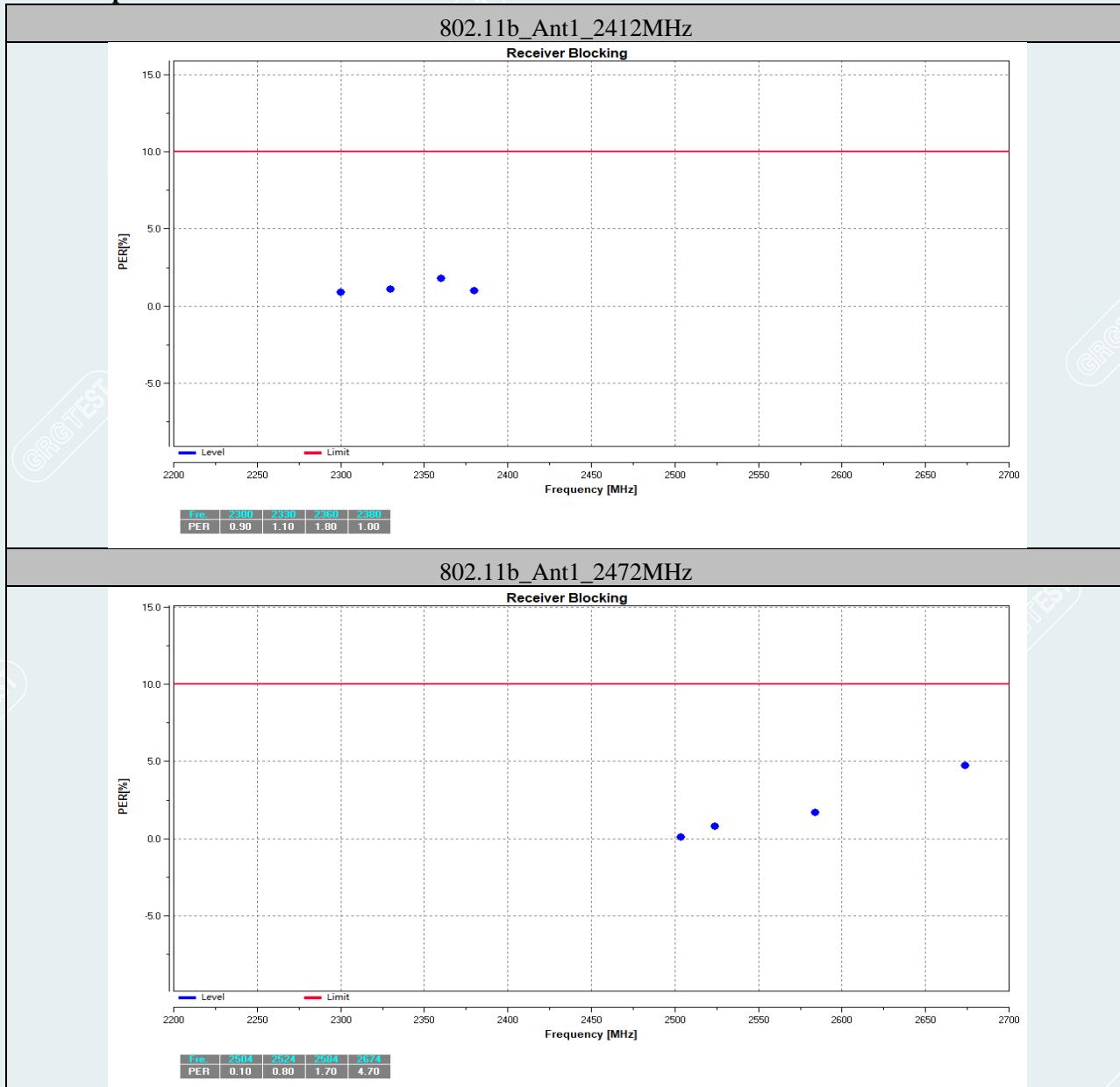
Test Engineer: Qin Tingting

Test Date: 2023-07-14 ~ 2023-07-24

Test Mode	Antenna	Freq [MHz]	Wanted signal [dBm]	Freq. [MHz]	CW [dBm]	PER [%]	Limit [%]	Verdict
802.11b	Ant1	2412	-74.07	2300	-34.07	0.10	≤10	PASS
			-74.07	2330	-34.07	0.20	≤10	PASS
			-74.07	2360	-34.07	0.30	≤10	PASS
			-68.07	2380	-34.07	0.20	≤10	PASS
	Ant1	2472	-68.07	2504	-34.07	0.60	≤10	PASS
			-74.07	2524	-34.07	2.00	≤10	PASS
			-74.07	2584	-34.07	3.00	≤10	PASS
			-74.07	2674	-34.07	1.80	≤10	PASS

Remark: Ant1:CW=signal power(-34dBm) + Antenna Gain(-0.07dBi).

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Test Graphs

----- The following blanks -----

APPENDIX A: PHOTOGRAPH OF THE TEST ARRANGEMENT

Please refer to the attached document E20230711057201-7-Test Photo.

APPENDIX B: PHOTOGRAPH OF THE EUT

Please refer to the attached document E20230711057201-8-EUT Photo.

----- End of Report -----